WAGNER

Translation of the Original Operating Manual

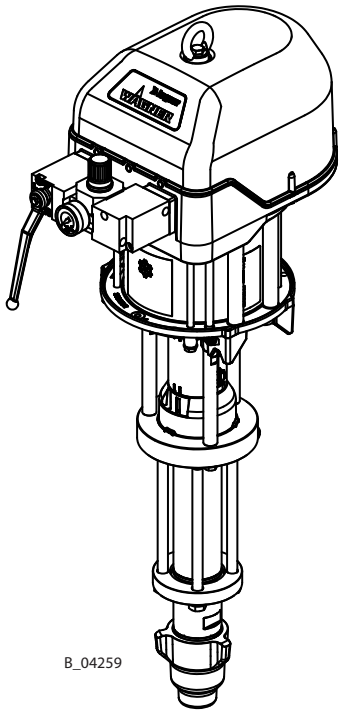
Jaguar
75-150
55-200

Tiger
72-300

Protective Coating (PC)

Version 09/2013

IceBreaker Piston Pumps
Flow Rate 150 cm^3–300 cm^3



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CE Ex II 2G IIB c T3 X

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1 ABOUT THIS OPERATING MANUAL

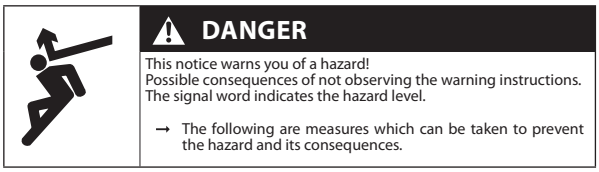
1.1 PREFACE

The operating manual contains information about safely operating, maintaining, cleaning and repairing the device.
The operating manual is part of the device and must be available to operating and service staff.
Operating and service staff should be instructed according to the safety instructions.
The device may only be operated in compliance with this operating manual.
This equipment can be dangerous if it is not operated according to the instructions in this operating manual.

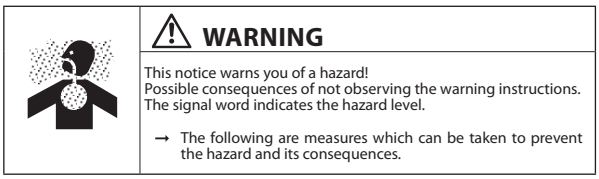
1.2 WARNINGS, NOTICES, AND SYMBOLS IN THIS OPERATING MANUAL

Warning instructions in this operating manual highlight particular dangers to users and to the device and state measures for avoiding the hazard. These warning instructions fall into the following categories:

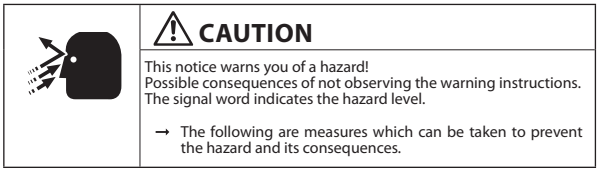
Danger - immediate risk of danger.
Non-observance will result in death or serious injury.


DANGER
This notice warns you of a hazard!
Possible consequences of not observing the warning instructions.
The signal word indicates the hazard level.
→ The following are measures which can be taken to prevent the hazard and its consequences.

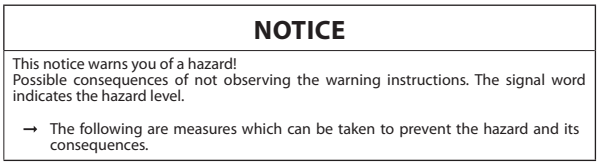
Warning - possible imminent danger.
Non-observance may result in death or serious injury.


WARNING
This notice warns you of a hazard!
Possible consequences of not observing the warning instructions.
The signal word indicates the hazard level.
→ The following are measures which can be taken to prevent the hazard and its consequences.

Caution - a possibly hazardous situation.
Non-observance may result in minor injury.


CAUTION
This notice warns you of a hazard!
Possible consequences of not observing the warning instructions.
The signal word indicates the hazard level.
→ The following are measures which can be taken to prevent the hazard and its consequences.

Notice - a possibly hazardous situation.
Non-observance may result in material damage.


NOTICE
This notice warns you of a hazard!
Possible consequences of not observing the warning instructions. The signal word indicates the hazard level.
→ The following are measures which can be taken to prevent the hazard and its consequences.

Note - provides information about particular characteristics and how to proceed.

1.3 LANGUAGES

The operating manual is available in the following languages:

Language	Order No.	Language	Order No.	Language	Order No.
German	2340281	English	2340282	French	2340285
Italian	2340284	Spanish	2340286		

The corresponding service instructions are available under the following order number:

Language	Order No.	Language	Order No.
German	2335993	English	2335994

1.4 ABBREVIATIONS IN THE TEXT

Stk	Number of pieces
Pos	Position
K	Marking in the spare parts lists
Order No.	Order number
No.	Order number (shortened form)
DH	Double stroke
SSt	Stainless steel
2K	Two components
PC	Protective Coating: Heavy duty corrosion protection

2 CORRECT USE

2.1 DEVICE TYPES

Pneumatic pump with spraypack:

Jaguar	Tiger
75-150	72-300
55-200	

2.2 TYPE OF USE

The device is suitable for processing liquid materials like paints and lacquers in accordance with the classification into explosion classes IIA or IIB.

2.3 USE IN AN EXPLOSION HAZARD AREA

The pneumatic pump can be employed in explosion hazard zones (Zone 1).

2.4 SAFETY PARAMETERS

WAGNER accepts no liability for any damage arising from incorrect use.

- → Use the device only to work with the products recommended by WAGNER.
- → Only operate the device as a whole.
- → Do not deactivate safety fixtures.
- → Use only WAGNER original spare parts and accessories.

The pneumatic pump may only be operated under the following conditions:

- → The operating staff must be trained on the basis of this operating manual.
- → The safety regulations listed in this operating manual must be observed.
- → The operating, maintenance, and repair information in this operating manual must be observed.
- → The statutory requirements and accident prevention regulation standards in the country of use must be observed.

2.5 PROCESSIBLE WORKING MATERIALS

→ Fluid products such as paints and lacquers.

NOTICE
Abrasive working materials and pigments! Greater wear of parts carrying the product. → Use the application-oriented model (flow rate/cycle, product, valves, etc.) as indicated in Chapter 5.3.3. → Check if the fluids and solvents used are compatible with the pump construction materials as indicated in Chapter 5.3.1.

2.6 REASONABLY FORESEEABLE MISUSE

The following is prohibited:
→ coating work pieces which are not grounded,
→ unauthorized conversions and modifications to the pneumatic pump,
→ processing dry or similar coating products, and
→ using defective components, spare parts, or accessories other than those described in Chapter 10 of this operating manual.

The forms of misuse listed below may result in health issues and/or material damage:
→ use of powder as coating product and
→ incorrectly set values for processing.

Wagner pneumatic pumps are not designed for pumping food.

2.7 RESIDUAL RISKS

Residual risks are risks which cannot be excluded even in the event of correct use.
If necessary, warning and prohibition signs at the relevant points of risk indicate residual risks.

Residual risk	Source	Consequences	Specific measures	Lifecycle phase
Skin contact with lacquers and cleaning agents	Handling of lacquers and cleaning agents	Skin irritations, allergies	Wear protective clothing, observe safety data sheets	Operation, maintenance, disassembly
Paint in air outside the defined working area	Painting outside the defined working area	Inhalation of substances which are hazardous to health	Observe working and operating instructions	Operation, maintenance

3 IDENTIFICATION

3.1 EXPLOSION PROTECTION IDENTIFICATION

As defined in Directive 94/9/EC (ATEX 95), the device is suitable for use in areas where there is an explosion hazard.

CE Ex II 2G IIB c T3 X

CE:	European Communities
Ex:	Symbol for explosion protection
II:	Device class II
2:	Category 2 (Zone 1)
G:	Ex-atmosphere gas
IIB:	Explosion group
c:	Constructional safety
T3:	Temperature class: maximum surface temperature < 200 °C; 392 °F
X:	Special Notes (see Chapter 3.2)

3.2 IDENTIFICATION X

Maximum surface temperature
The maximum surface temperature of the piston pump can be reached if it runs dry.
→ Ensure that the piston pump is filled with sufficient working or flushing agent.
→ Ensure that the separating agent tank is filled with sufficient separating agent.

Ignition temperature of the coating product
→ Ensure that the ignition temperature of the coating product is above the maximum surface temperature.

Ambient temperature
→ The permissible ambient temperature is: +5 °C to +60 °C; +41 °C to 140 °F.

Medium supporting atomizing
→ To atomize the product, use only weakly oxidizing gases, e.g. air.

4 GENERAL SAFETY INSTRUCTIONS

4.1 SAFETY INSTRUCTIONS FOR THE OPERATOR

→ Keep this operating manual at hand near the unit at all times.
→ Always follow local regulations concerning occupational safety and accident prevention.

4.1.1 ELECTRICAL EQUIPMENT

Electrical devices and equipment
→ To be provided in accordance with the local safety requirements with regard to the operating mode and ambient influences.
→ May only be maintained by skilled electricians or under their supervision.
→ Must be operated in accordance with the safety regulations and electrotechnical regulations.
→ Must be repaired immediately in the event of problems.
→ Must be decommissioned if they pose a hazard.
→ Must be de-energized before work is commenced on active parts. Inform staff about planned work. Observe electrical safety regulations.

4.1.2 STAFF QUALIFICATIONS

→ Ensure that the device is operated and repaired only by trained persons.

4.1.3 SAFE WORK ENVIRONMENT

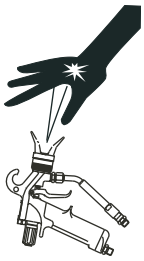
→ Ensure that the floor in the working area is dissipative in accordance with EN 61340-4-1 (Resistance must not exceed 100 MOhm).
→ Ensure that all persons within the working area wear dissipative shoes. Footwear must comply with EN 20344. The measured insulation resistance must not exceed 100 Mohm.
→ Ensure that during spraying, persons wear dissipative gloves. The grounding takes place via the spray gun handle.
→ If protective clothing is worn, including gloves, it has to comply with EN 1149-5. The measured insulation resistance must not exceed 100 Mohm.
→ Paint mist extraction systems must be fitted on site according to local regulations.
→ Ensure that the following components of a safe working environment are available:
– Product/air hoses adapted to the working pressure.
– Personal safety equipment (breathing and skin protection).
→ Ensure that there are no ignition sources such as naked flames, sparks, glowing wires, or hot surfaces in the vicinity. Do not smoke.

4.2 SAFETY INSTRUCTIONS FOR STAFF

→ Always follow the information in these instructions, particularly the general safety instructions and the warning instructions.
→ Always follow local regulations concerning occupational safety and accident prevention.

4.2.1 SAFE HANDLING OF WAGNER SPRAY DEVICES

The spray jet is under pressure and can cause dangerous injuries.
Avoid injection of paint or cleaning agents:



→ Never point the spray gun at people.
→ Never reach into the spray jet.
→ Before all work on the device, in the event of work interruptions and functional faults:
  – Switch off the energy/compressed air supply.
  – Relieve the pressure from the spray gun and device.
  – Secure the spray gun against actuation.
  – In the event of functional faults: remedy the fault as described in the "Troubleshooting" chapter.
→ The liquid ejection devices are to be checked for safe working conditions by an expert (e.g. Wagner Service Technician) as often as necessary or at least every 12 months, in accordance with the guidelines for liquid emitters (ZH 1/406 and BGR 500 Part 2 Chapter 2.36).
  – For shut down devices, the examination can be suspended until the next commissioning.
→ Carry out the work steps as described in the "Pressure Relief/Work Interruptions" chapter:
  – if pressure relief is required.
  – if the spraying work is interrupted or stopped.
  – before the device is cleaned on the outside, checked, or serviced.
  – before the spray nozzle is installed or cleaned.

In the event of skin injuries caused by paint or cleaning agents:
→ Note down the paint or cleaning agent that you have been using.
→ Consult a doctor immediately.

Avoid danger of injury through recoil forces:
→ Ensure that you have firm footing when operating the spray gun.
→ Only hold the spray gun briefly in a position.

4.2.2 GROUNDING THE DEVICE

In order to avoid electrostatic charging of the device, the device must be grounded.
Friction, flowing liquids, and air or electrostatic coating processes create charges. Flames or sparks can form during discharge.

→ Ensure that the device is grounded for every spraying operation.
→ Ground the work pieces to be coated.
→ Ensure that all persons inside the working area are grounded, e.g. that they are wearing dissipative shoes.
→ Wear dissipative gloves when spraying. The grounding takes place via the spray gun handle.

4.2.3 PRODUCT HOSES

→ Ensure that the hose material is chemically resistant to the sprayed products.
→ Ensure that the product hose is suitable for the pressure generated in the device.
→ Ensure that the following information can be seen on the high-pressure hose:
  - Manufacturer
  - Permissible operating overpressure
  - Date of manufacture
→ Make sure that the hoses are laid only in suitable places. In no case, should hoses be laid in the following places:
  – in high-traffic areas,
  – on sharp edges,
  – on moving parts, or
  – on hot surfaces
→ Make sure that the hoses are never used to pull or move the equipment.
→ The electrical resistance of the complete high-pressure hose must be less than 1 Mohm.

Several liquids have a high expansion coefficient. In some cases their volume can rise with consequent damage to pipes, fittings, etc. and cause fluid leakage.
When the pump sucks liquid from a closed tank, ensure that air or suitable gas can enter the tank to avoid a vacuum being generated in the tank itself. Thus a negative pressure is avoided. The vacuum could implode the tank (squeeze) and can cause it to break. The tank would leak and the liquid would flow out.
The pressure created by the pump is a multiplication of the inlet air pressure.

4.2.4 CLEANING

→ De-energize the device electrically.
→ Disconnect the pneumatic supply line.
→ Relieve the pressure from the device.
→ Ensure that the flash point of the cleaning agent is at least 5 K above the ambient temperature.
→ To clean, use cloths and brushes moistened with solvent. Never use hard objects or spray on cleaning agents with a gun.
→ Preferably, non-combustible cleaning agents should be used.

An explosive gas/air mixture forms in closed tanks.
→ When cleaning devices with solvents, never spray into a closed tank.
→ Only use electrically conductive tanks for cleaning liquids.
→ The tanks must be grounded.

4.2.5 HANDLING HAZARDOUS LIQUIDS, LACQUERS AND PAINTS

→ When preparing or working with lacquer and when cleaning the device, follow the working instructions of the manufacturer of the lacquers, solvents and cleaning agents being used.
→ Take the specified protective measures, in particular wear safety goggles, protective clothing and gloves, as well as hand protection cream if necessary.
→ Use a mask or a breathing apparatus if necessary.
→ For sufficient health and environmental safety: operate the device in a spray booth or on a spraying wall with the ventilation (extraction) switched on.
→ Wear suitable protective clothing when working with hot products.

4.2.6 TOUCHING HOT SURFACES

→ Only touch hot surfaces if you are wearing protective gloves.
→ When operating the unit with a coating product with a temperature of > 43 °C; 109.4 °F:
- Identify the device with a warning label "Warning - hot surface".

Order No.	
9998910	Instruction label
9998911	Protection sticker

Note: Order the two stickers together.

4.3 USE IN AREAS SUBJECT TO EXPLOSION HAZARDS

The pneumatic pump may be used in areas subject to explosion hazards. The following safety regulations must be observed and followed.

4.3.1 SAFETY REGULATIONS

Safe handling of WAGNER spray devices

Mechanical sparks can form if the device comes into contact with metal.
In an explosive atmosphere:
- → Do not knock or push the device against steel or rusty iron.
- → Do not drop the device.
- → Only use tools that are made of a permitted material.

Ignition temperature of the pumped product
- → Check that the ignition temperature of the pumped product is higher than the max. allowable surface temperature.

Medium supporting atomizing
- → To atomize the product, use only weakly oxidizing gases, e.g. air.

Surface spraying, electrostatics
- → Do not spray device parts using electrostatic equipment.

Cleaning

If there are deposits on the surfaces, the device may form electrostatic charges. Flames or sparks can form during discharge.
- → Remove deposits from the surfaces to maintain conductivity.
- → Only use a damp cloth to clean the device.

4.3.2 OPERATION WITHOUT FLUID

Avoid running the pump so that it sucks in air (without fluid inside). The air, combined with the vapor of flammable fluids, can generate internal areas with an explosion hazard.
Periodically check that the pump is working smoothly, paying special attention to the presence of air in the pumped fluid, which may be caused by damaged packings.
- → Avoid operating the pump with damaged packings.
- → Ensure that the separating agent tank is filled with sufficient separating agent.

5 DESCRIPTION

5.1 AREAS OF APPLICATION

5.1.1 CORRECT USE

The pneumatic piston pump is suitable for processing liquid products according to Chapter 5.1.2.

5.1.2 PROCESSIBLE WORKING MATERIALS

Application	Jaguar 75-150 55-200	Tiger 72-300
Water-dilutable products	↗	↗
Solvent-based lacquers and paints	↗	↗
Primers	↗	↗
Epoxy and polyurethane lacquers, phenolic lacquers	↗	↗
Underside protection, fire protection materials	↗	↗

Legend
↗ recommended ➟ limited suitability ↘ less suitable

NOTICE

Abrasive working materials and pigments!
Greater wear of parts carrying the product.

→ Use suitable combinations of devices (packings, valves, etc.)

5.1.3 RECOMMENDED APPLICATION AREAS

Application	Jaguar 75-150 55-200	Tiger 72-300
Steel-processing industry	↗	↗
Rail vehicle	↗	↗
Shipbuilding	↗	↗
Tank construction	↗	↗
Pipeline construction	↗	↗
Wind energy	↗	↗

Legend
↗ recommended ➟ limited suitability ↘ less suitable

5.2 SCOPE OF DELIVERY

Pneumatic piston pump
Consists of:
- Fluid section
- Air motor
- Connection elements
- Air pressure regulator for air motor

The scope of delivery also includes:

Separating agent 250 ml; 250 cc	Order No.:	9992504
Conformity certificate GM2000W	see	Chapter 12
Operating manual, German	Order No.:	2340281
Operating manual in the local language	see	Chapter 1

The delivery note shows the exact scope of delivery. Accessories: see Chapter 10.

5.3 DATA

5.3.1 MATERIALS OF PAINT-WETTED PARTS

Housing	Stainless steel
Piston	Stainless steel and hard chrome
Valve balls	Stainless steel
Valve seats	Carbide
O-rings	Teflon
Packings	Standard PE/ TG
Packings for Tiger 72-300	Standard PE/L

PE = Ultra high molecular weight polyethylene
TG = Teflon (PTFE) with graphite
L = Leather

5.3.2 RECOMMENDED PACKINGS

WAGNER packings are manufactured in four different materials:

Code	Material	Color
L	Leather	dark brown
TG	Teflon with graphite	black
PE	Ultra high molecular weight polyethylene	transparent

Each product has the following properties, which influence the packings:

	L	TG	PE
Mechanical stability	poor	good	good
Friction coefficient	poor	very good	good
Sealing force	good*	good	good
Chemical resistance	poor	good	very good
Temperature resistance	good	poor - good	very good

* for abrasive products

⚠ WARNING

Outgoing air containing oil!
Risk of poisoning if inhaled.
Air motor switching problems.

→ Provide compressed air free from oil and water (quality standard 5.5.4 according to ISO 8573.1) 5.5.4 = 40 µm / +7 / 5 mg/m³.

5.3.3 TECHNICAL DATA

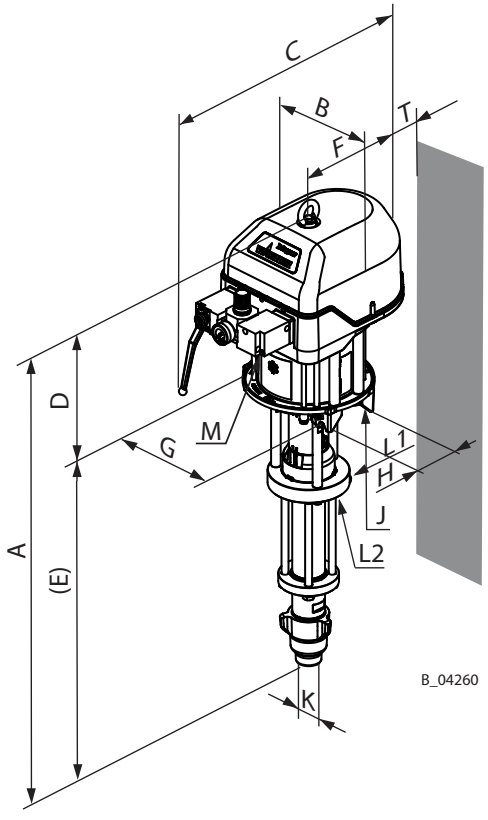
5.3.3.1 TECHNICAL DATA FOR JAGUAR

Description	Devices	Jaguar 75-150	Jaguar 55-200
Pump ratio		75:1	55:1
Volume flow per double stroke (DH)	cm^3; cc	150	200
Maximum operating overpressure	MPa bar psi	53 530 7687	44 440 6382
Maximum possible strokes in operation	DH/min	60	60
Maximum recommended strokes per minute in continuous operation	DH/min	40	40
Minimum/maximum air inlet pressure	MPa bar psi	0.25-0.71 2.5-7.1 36-103	0.25-0.80 2.5-8.0 36-116
Ø air inlet connection (inside thread)	inch	G1"	G1"
Minimum Ø of the compressed air supply line	mm; inch	25; 0.98	25; 0.98
Air consumption at 0.6 MPa; 6 bar; 87 psi per double stroke	nl scf	79.9 2.82	79.9 2.82
Air motor piston diameter	mm; inch	220; 8.7	220; 8.7
Air motor piston stroke	mm; inch	150; 6	150; 6
Sound pressure level at maximum permissible air pressure*	dB(A)	83	83
Sound pressure level at 0.6 MPa; 6 bar; 87 psi air pressure*	dB(A)	81	81
Sound pressure level at 0.4 MPa; 4 bar; 58 psi air pressure*	dB(A)	69	69
Product inlet connection (inside thread)	mm	G1 1/2"	G1 1/2"
Product outlet (outside thread)	mm	M24x1.5	M24x1.5
Weight	kg; lb	53; 117	53; 117
Product pH value	pH	3.5 ÷ 9	3.5 ÷ 9
Maximum product pressure at pump inlet	MPa bar psi	2 20 290	2 20 290
Product temperature	°C; °F	+5 ÷ +80; +41 ÷ +176	+5 ÷ +80; +41 ÷ +176
Ambient temperature	°C; °F	+5 ÷ +60; +41 ÷ +140	+5 ÷ +60; +41 ÷ +140
Allowable inclination for operation	<) °	± 10	± 10

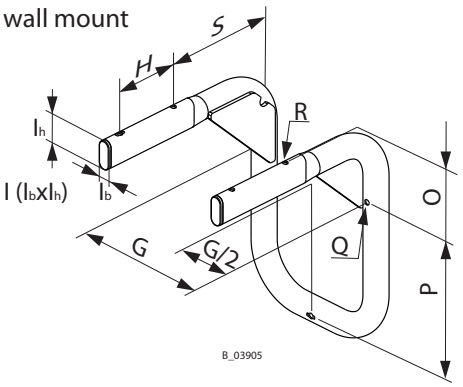
*A rated sound pressure level measured at 1 m distance, LpA1m, according to DIN EN 14462: 2005. Reference measurements have been made by SUVA (Swiss accident insurance institute).

5.3.3.2 MEASUREMENTS AND CONNECTIONS FOR JAGUAR

	Jaguar 75-150 mm; inch	Jaguar 55-200 mm; inch
A	1145; 45.0	1157; 45.5
B	304; 12	304; 12
C	~582; 22.9	~582; 22.9
D	470; 18.5	470; 18.5
E	675; 26.6	687; 27.0
F	244; 9.6	244; 9.6
G	230; 9.1	230; 9.1
H	110; 4.3	110; 4.3
I	20x48; 0.8x1.9	20x48; 0.8x1.9
J	M8	M8
K	G1 1/2"	G1 1/2"
L1	M24x1.5	M24x1.5
L2	G3/8"	G1/2"
M	G1"	G1"
O	135.5; 5.3	135.5; 5.3
P	238; 9.4	238; 9.4
Q	ø 9; ø 0.35	ø 9; ø 0.35
R	ø 9; ø 0.35	ø 9; ø 0.35
S	206; 8.1	206; 8.1
T	17; 0.67	17; 0.67



Jaguar wall mount



5.3.3.3 TECHNICAL DATA FOR TIGER

Description	Devices	Tiger 72-300
Pump ratio	-	72 :1
Volume flow per double stroke (DH)	cm³; cc	300
Maximum operating overpressure	MPa; bar; psi	53; 530; 7687
Maximum possible strokes in operation	DH/min	40
Maximum recommended strokes per minute in continuous operation	DH/min	30
Minimum/maximum air inlet pressure	MPa; bar; psi	0.25-0.74; 2.5-7.4; 36-107
Ø Air inlet (inside thread)	inch	G 1"
Minimum Ø of the compressed air supply line	mm; inch	25; 1.0
Air consumption at 0.6 MPa; 6 bar; 87 psi per double stroke	nl; scf	170; 6
Air motor piston diameter	mm; inch	300; 11.8
Air motor piston stroke	mm; inch	150; 5.9
Sound pressure level at maximum permissible air pressure*	dB(A)	82
Sound pressure level at 0.6 MPa; 6 bar; 87 psi air pressure*	dB(A)	80
Sound pressure level at 0.4 MPa; 4 bar; 58 psi air pressure*	dB(A)	75
Product inlet connection (inside thread)	mm	G1 1/2"
Product outlet (outside thread)	mm	M24x1.5
Weight	kg; lb	80; 176
Product pH value	pH	3.5 ÷ 9
Max. product pressure at pump inlet	MPa; bar; psi	2; 20; 290
Product temperature	°C; °F	+5 ÷ +80; 41 ÷ 176
Ambient temperature	°C; °F	+5 ÷ +60; 41 ÷ 140
Allowable inclination for operation	∢°	± 10

* A rated sound pressure level measured at 1 m distance, L pA1m, according to DIN EN 14462: 2005. Reference measurements have been made by SUVA (Swiss Accident Insurance Institute).

⚠ WARNING

Outgoing air containing oil!
Risk of poisoning if inhaled.

→ Provide compressed air free from oil and water (quality standard 5.5.4 according to ISO 8573.1) 5.5.4 = 40 µm / +7 / 5 mg/m³.

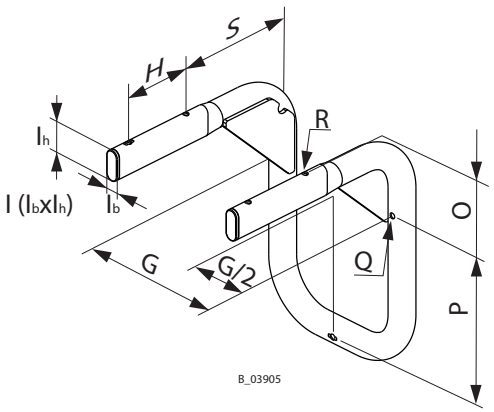
5.3.3.4 MEASUREMENTS AND CONNECTIONS FOR TIGER

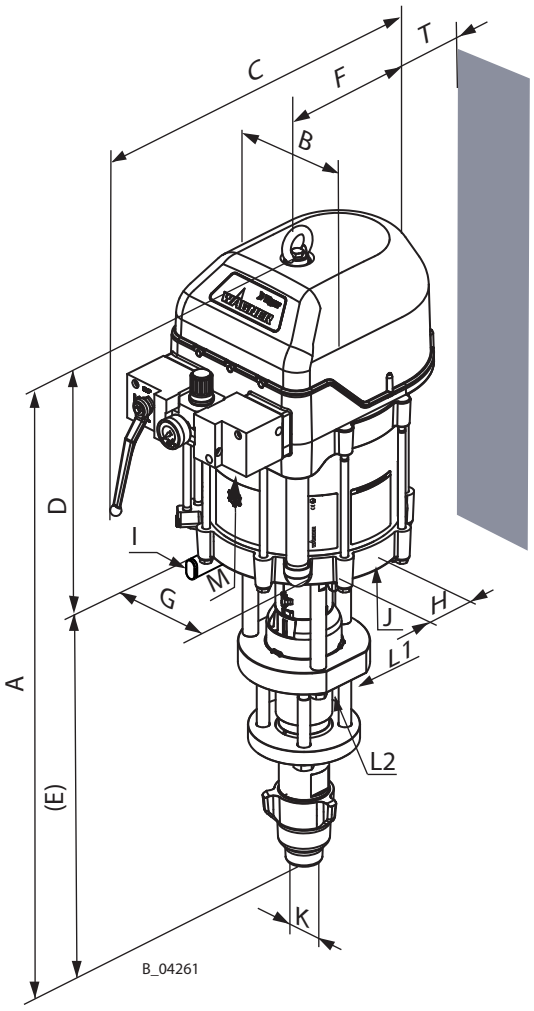
	Tiger 72-300	Unit
A	1106	mm
	43.5	inch
B	340	mm
	13.4	inch
C	562	mm
	22.1	inch
D	518	mm
	20.4	inch
E	588	mm
	23.1	inch
F	244	mm
	9.6	inch
G	230	mm
	9.1	inch

	Tiger 72-300	Unit
H	110	mm
	4.3	inch
I	20x48	mm
	0.8x1.9	inch
J	M8	mm
K	G1 1/2"	mm
L1	M24x1.5	mm
L2	G3/4"	inch
M	G 1"	inch
O	135	mm
	5.3	inch
P	238	mm
	9.4	inch

	Tiger 72-300	Unit
Q	ø 9	mm
	ø 0.35	inch
R	ø 9	mm
	ø 0.35	inch
S	206	mm
	8.1	inch
T	32	mm
	1.3	inch

Wall mount





5.3.4 VOLUME FLOW

Wagner AL nozzles			Volume flow* in l/min		
Ø inch	Ø mm	Spray angle	at 7 MPa 70 bar 1015 psi	at 10 MPa 100 bar 1450 psi	at 15 MPa 150 bar 2175 psi
0.007	0.18	40°	0.1650	0.2000	0.2400
0.009	0.23	20-30-40-50-60°	0.2060	0.2500	0.3090
0.011	0.28	10-20-30-40-50-60°	0.2950	0.3450	0.4260
0.013	0.33	10-20-30-40-50-60-80°	0.4530	0.5280	0.6600
0.015	0.38	10-20-30-40-50-60-80°	0.5770	0.6720	0.8130
0.017	0.43	20-30-40-50-60-70°	0.7310	0.7860	1.0640
0.019	0.48	20-30-40-50-60-70-80°	0.9260	1.0920	1.3700
0.021	0.53	20-40-50-60-80°	1.1430	1.3600	1.6900
0.023	0.58	20-40-50-60-70-80°	1.3700	1.5900	2.0100
0.025	0.64	20-40-50-60-80°	1.6200	1.9100	2.4000
0.027	0.69	20-40-50-60-80°	1.8300	2.1300	2.6800
0.029	0.75	60°	2.1900	2.5100	3.1700
0.031	0.79	20-40-50-60°	2.4000	2.7700	3.4900
0.025	0.90	20-40-50-60°	3.2200	3.7400	4.6900
0.043	1.10	20-50°	5.0700	6.0400	7.4600
0.052	1.30	50°	5.1200	6.5000	7.5200

* Volume flow refers to water.

5.3.5 PERFORMANCE DIAGRAMS

Example

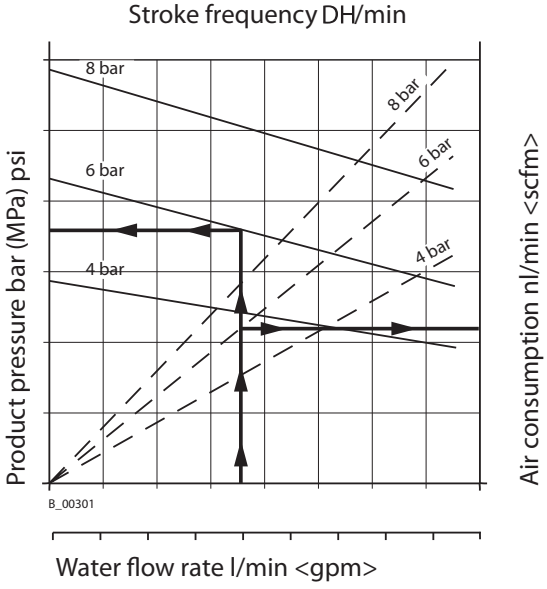
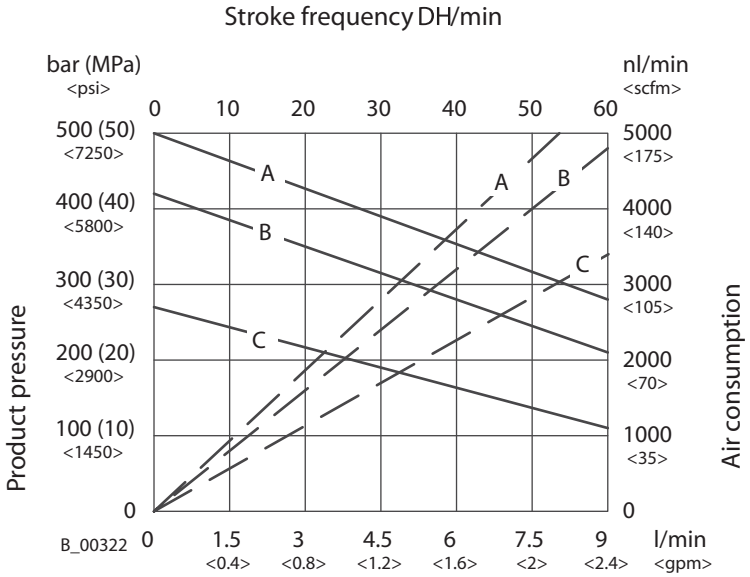
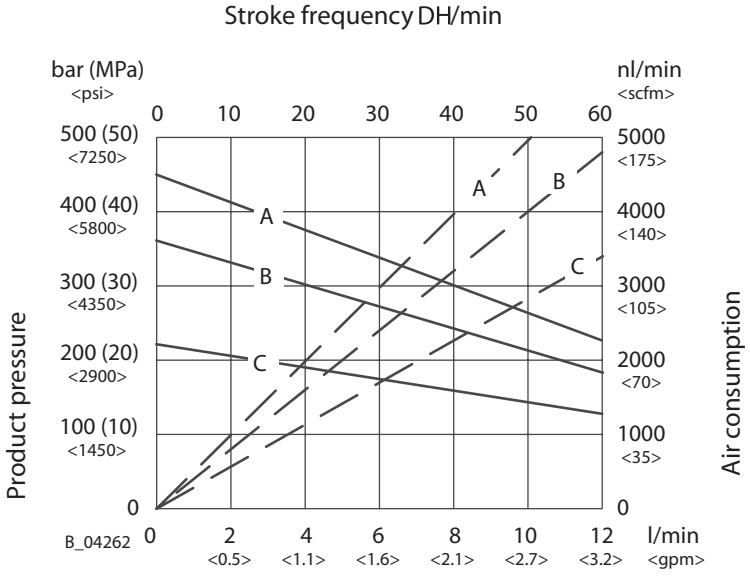


Diagram for Jaguar 75-150



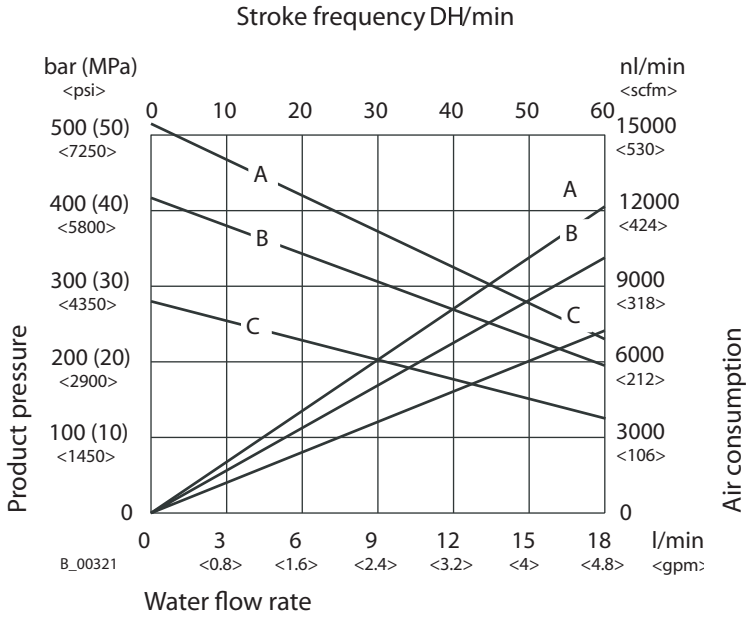
A = 7.1 bar; 0.71 MPa; 103 psi air pressure
B = 6 bar; 0.6 MPa; 87 psi air pressure
C = 4 bar; 0.4 MPa; 58 psi air pressure

Diagram for Jaguar 55-200



A = 8 bar; 0.8 MPa; 116 psi air pressure
B = 6 bar; 0.6 MPa; 87 psi air pressure
C = 4 bar; 0.4 MPa; 58 psi air pressure

Diagram for Tiger 72–300

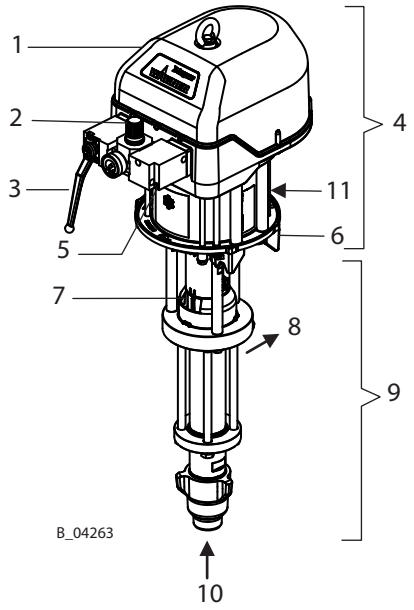


A = 7.4 bar (0.74 MPa/ 107 psi) air pressure
B = 6 bar (0.6 MPa/ 87 psi) air pressure
C = 4 bar (0.4 MPa/ 58 psi) air pressure

5.4 FUNCTION

5.4.1 PUMP

1 Control housing with integrated silencer
2 Air pressure regulator
3 Ball valve
4 Air motor
5 Compressed air inlet
6 Mounting flange
7 Separating agent cup
8 Product outlet
9 Fluid section
10 Product inlet
11 Grounding connection



Function principle
The piston pump is driven with compressed air (2). This compressed air moves the air piston up and down in the air motor (4) and it also moves the associated pump piston up and down in the fluid section (9).
In the control housing (1), the air pressure is redirected at the end of each stroke with the help of the reversing valve. The working material is sucked up during the upwards stroke and is continuously conveyed towards the product outlet (8) in both stroke directions.

Air motor (4)
The air motor with its pneumatic reverse (1) does not require pneumatic oil.
The compressed air is fed to the motor via the air pressure regulator (2) and the ball valve (3).
The air motor is fitted with a safety valve. The safety valve has been set and sealed at the factory. In case of pressures over and above the permissible operating pressure, the valve, which is held with a spring, automatically opens and releases the excess pressure.

⚠ WARNING

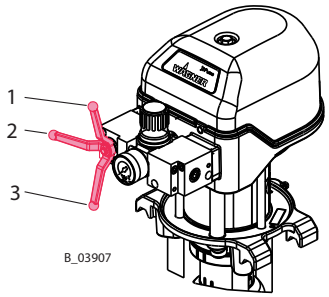
Overpressure!
Risk of injury from bursting components.

→ Never change the safety valve setting.

Fluid section (9)
The fluid section has been designed as a piston pump with exchangeable ball valves. The hard chrome-plated pump piston runs in two fixed packings which are self-adjusting by means of a pressure spring, thus resulting in a long service life.
Between the air motor and the fluid section there is a separating agent cup (7) for holding the separating agent.

5.4.2 PRESSURE REGULATOR UNIT

1 Pressure regulator
2 Ball valve
3 Pressure gauge
4 Compressed air inlet

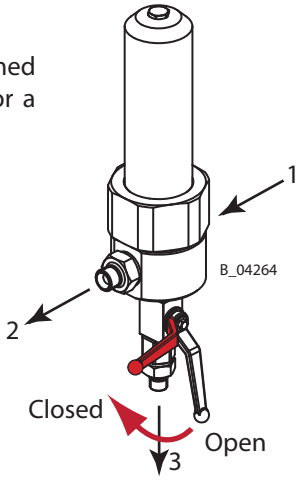


Positions of the ball valve

1 Closed: working pressure in the air motor will be relieved (control pressure is still present).
2 Closed: the air motor may still be under pressure.
3 Open: working position

5.4.3 HIGH-PRESSURE FILTER (OPTION)

So that the complete pressure relief of the pump can be performed (see Chapter 7.2.2), a high-pressure filter with a return line or a relief combination, is mandatory.

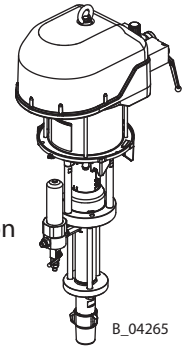


5.4.3.1 HIGH-PRESSURE FILTER (OPTION)

To ensure problem-free operation it is recommended that a WAGNER high-pressure filter be used. These have been developed especially for WAGNER pneumatic pumps. The filter inserts can be exchanged depending on the product to be used. The respective high-pressure filters and their inserts for the device can be found in the accessories list.

1 Fluid section connection
2 Product outlet
3 Return line

Preferred filter installation position



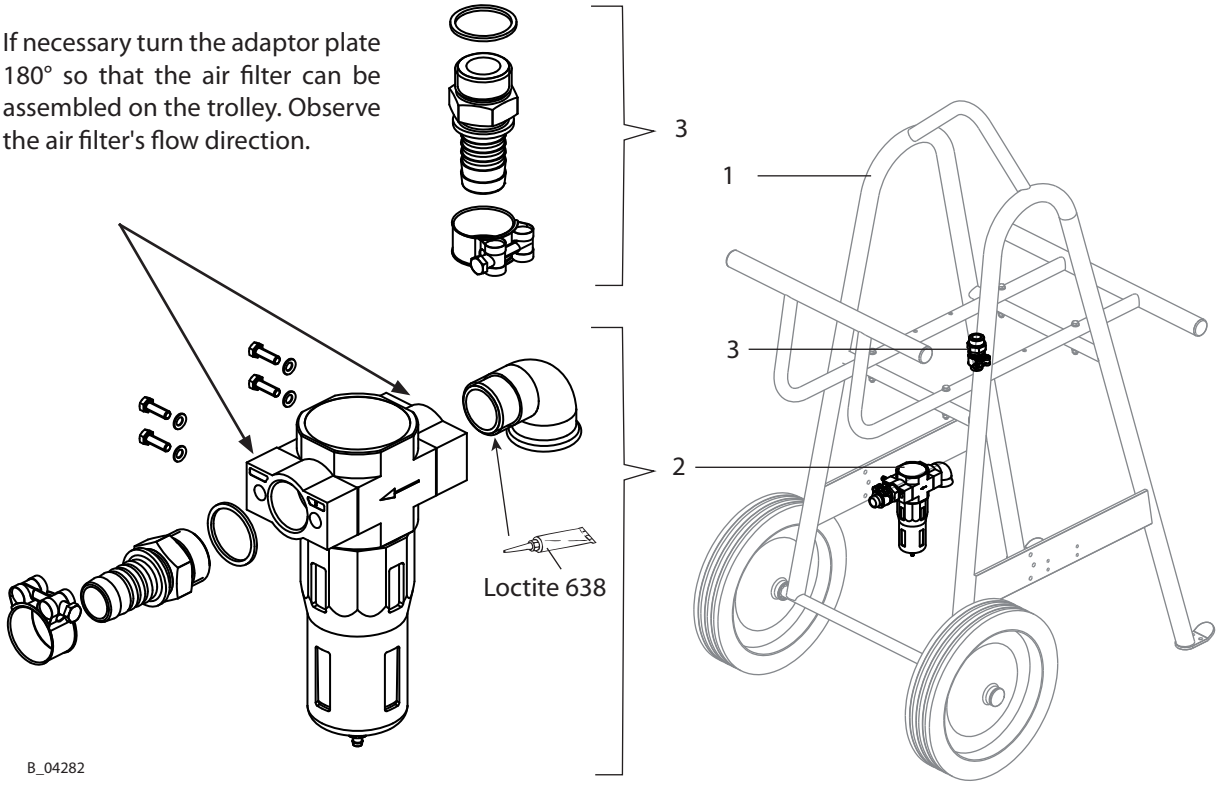
5.4.4 AIR FILTER SET PC (OPTION)

The air filter serves to filter the inlet's compressed air.

Assembly of the air filter set PC on the trolley PC (1):

1. Mount the air filter (2).
2. Mount the air filter (2) on trolley PC (1).
3. Mount the air connection (3) on the air motor.
4. Mount the air hose between (2) and (3).

If necessary turn the adaptor plate 180° so that the air filter can be assembled on the trolley. Observe the air filter's flow direction.



5.4.5 HEATER SET PC (OPTION)

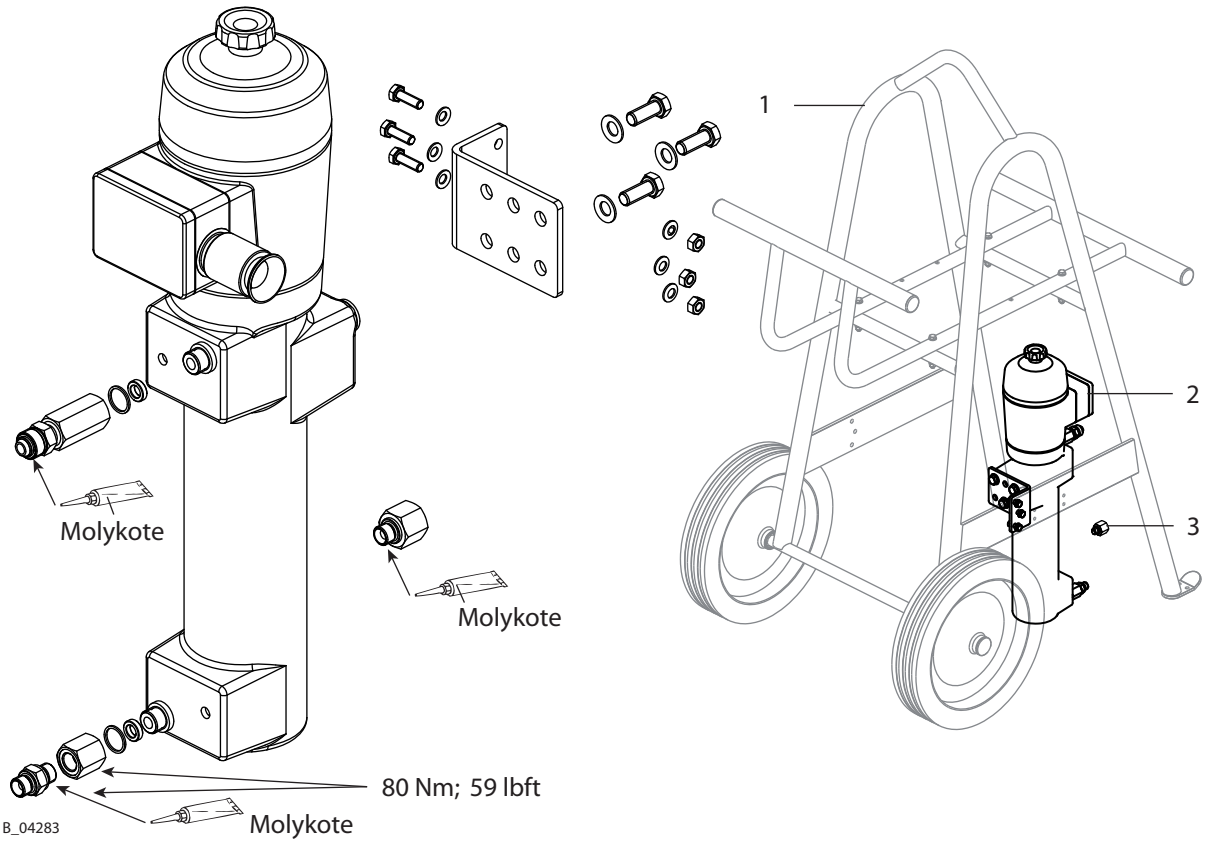
The electric, continuous-flow heater with explosion protection is downstream of the pump. The coating product can only be heated to maximum 80 °C. The continuous-flow heater is fitted with a temperature limiter.

The temperature is set using the temperature regulator. The coating product temperature is read off the thermometer on the coating product output.

→ For description, see heater operating manual (Order No. 65860).

Assembly of the heater set PC on the trolley PC:

1. Mount heater (2).
2. Mount heater (2) on trolley PC (1).
3. Connect heater in accordance with the operating manual.
4. Mount enclosed fitting (3) on the fluid section's outlet fitting.

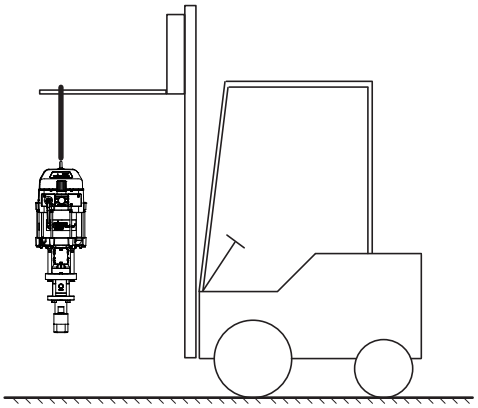


6 ASSEMBLY AND COMMISSIONING

6.1 TRANSPORTATION

The pump must be moved on a trolley (heavy duty trolley) or with lifting equipment or a crane.

Only pumps without carriages may be lifted by the ring nut or lifting eye bolt (see accessories) and transported short distances.



6.2 STORAGE

Store the pump in a closed and dry environment.
Thoroughly clean the pump, if a long-term decommissioning is planned.
When resuming pump operation, proceed as described in the following sections.

⚠ WARNING

Discharge of electrostatically charged components in atmospheres containing solvents!
Explosion hazard from electrostatic sparks.

→ Only use a damp cloth to clean the pump.

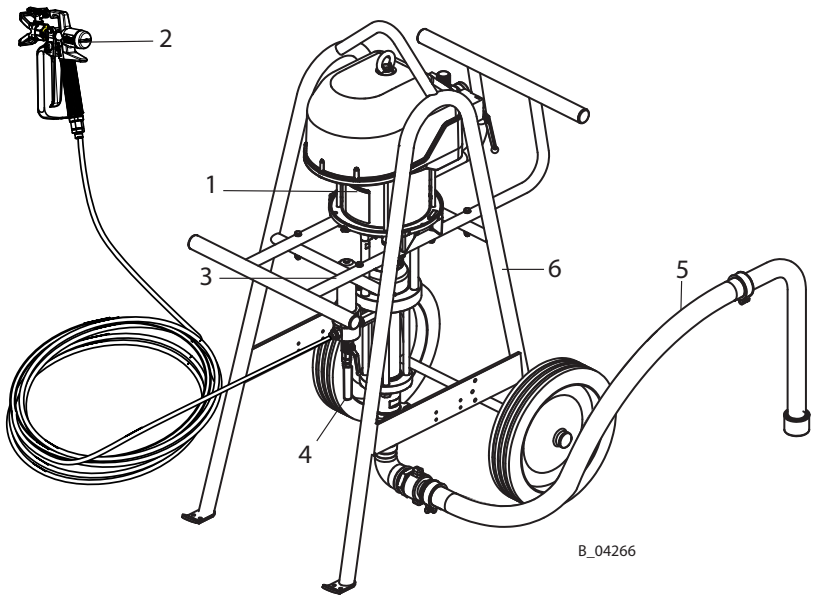
6.3 ASSEMBLING THE PUMP

Note:
This pump can be used as part of a spraying system for Airless or AirCoat applications. The individual components are shown in the accessories, or can be arranged with a spraypack configurator. The nozzles must be selected according to the gun operating manual.

Procedure:

a) Mount pump (1) on stand, trolley (6), or wall mount. When using a wall mount, the fluid section must be turned by 180°.
b) Mount high pressure filter (3).
c) Mount suction system (5).
d) Mount return tube (4) or return hose.
e) Connect high-pressure hose and gun (2) as laid down in the operating manual for the gun.

Airless system



⚠	**⚠ WARNING** **Inclined ground!** Risk of accidents if the device rolls away/falls. → Position the trolley with the piston pump horizontally. → If the surface is inclined, position the feet of the trolley towards the gradient. → Secure the trolley.

6.4 GROUNDING

⚠ WARNING

Discharge of electrostatically charged components in atmospheres containing solvents!
Explosion hazard from electrostatic sparks.

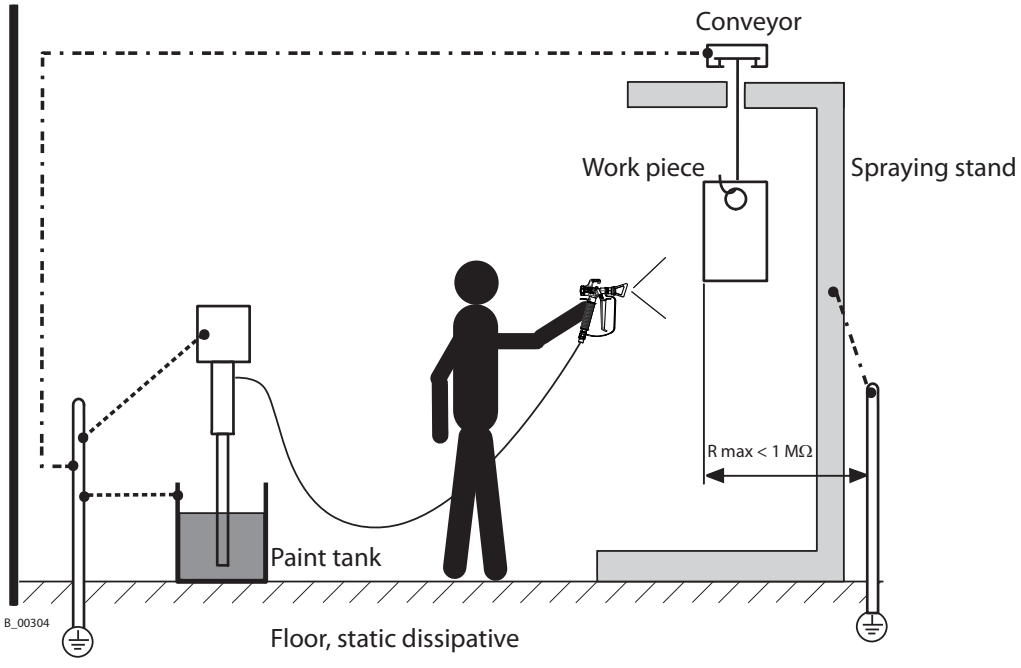
→ Only use a damp cloth to clean the piston pump.
→ Ground all device components.
→ Ground the work pieces to be coated.

⚠ WARNING

Heavy paint mist if grounding is insufficient!
Danger of poisoning.
Insufficient paint application quality.

→ Ground all device components.
→ Ground the work pieces to be coated.

Grounding scheme (example)



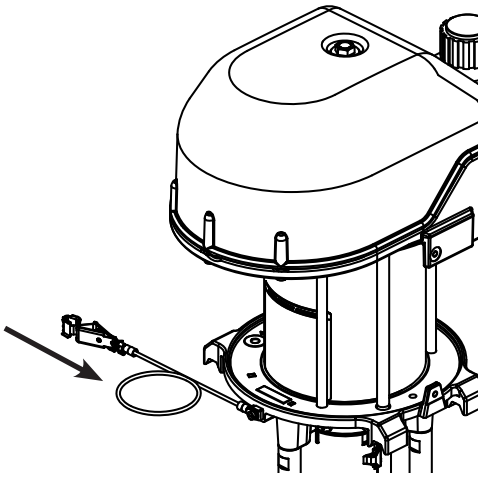
The grounding connection is mandatory with the IceBreaker Pumps.

Cable cross sections

Pump	4 mm²; AWG11
Paint tank	6 mm²; AWG10
Conveyor	16 mm²; AWG5
Booth	16 mm²; AWG5
Spraying stand	16 mm²; AWG5

Procedure:

1. Screw on grounding cable with eye.
2. Clamp the grounding cable clip to a grounding connection on site.
3. Ground the product (paint) tank to an on-site grounding connection.
4. Ground the other parts of the system to an on-site grounding connection.
   16 mm²; AWG5



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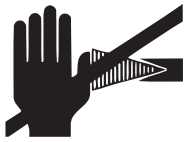
6.5 COMMISSIONING

6.5.1 SAFETY INSTRUCTIONS

Before carrying out any work, the following points must be observed in accordance with the operating manual:

- Observe all safety regulations in accordance with Chapter 4.
- Carry out commissioning properly.



⚠ WARNING

High-pressure spray jet!
Danger to life from injecting paint or solvent.

→ Never reach into the spray jet.
→ Never point the spray gun at people.
→ Consult a doctor immediately in the event of skin injuries caused by paint or solvent. Inform the doctor about the paint or solvent used.
→ Never seal defective high-pressure parts; instead relieve the pressure from them and replace them.

⚠ WARNING

Toxic and/or flammable vapor mixtures!
Risk of poisoning and burns.

→ Operate the device in a spray booth approved for the working materials.
– or –
→ Operate the device on an appropriate spraying wall with the ventilation (extraction) switched on.
→ Observe national and local regulations for the outgoing air speed.

⚠ WARNING

Gas mixtures can explode if there is an incompletely filled pump!
Danger to life from flying parts.

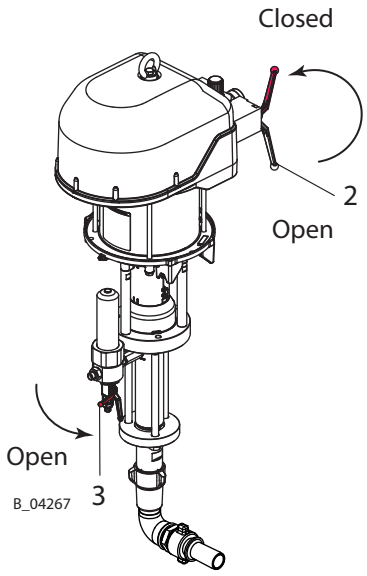
→ Ensure that the pump and suction system are always completely filled with flushing agent or working medium.
→ Do not spray the device empty after cleaning.

Before every start-up, the following points should be observed as laid down in the operating manual:

- Secure gun with safety clip.
- Check the permissible pressures.
- Check all connecting parts for leaks.
- Check hoses for damage.

It should be ensured that the device is in the following state before carrying out any work on it:

- The pressure should be released from the pump and high-pressure hose with gun.
- The gun should be secured with the safety clip.
- The air supply should be interrupted.



EMERGENCY STOP
In case of unforeseen occurrences the ball valve (2) should be closed immediately and the return valve (3) opened.

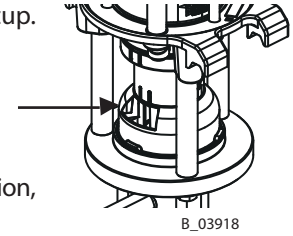
6.5.2 FILLING WITH SEPARATING AGENT

NOTICE

Piston pump runs dry!
High wear/damage to the packings.
Paint or solvent can escape if the seals are dry.

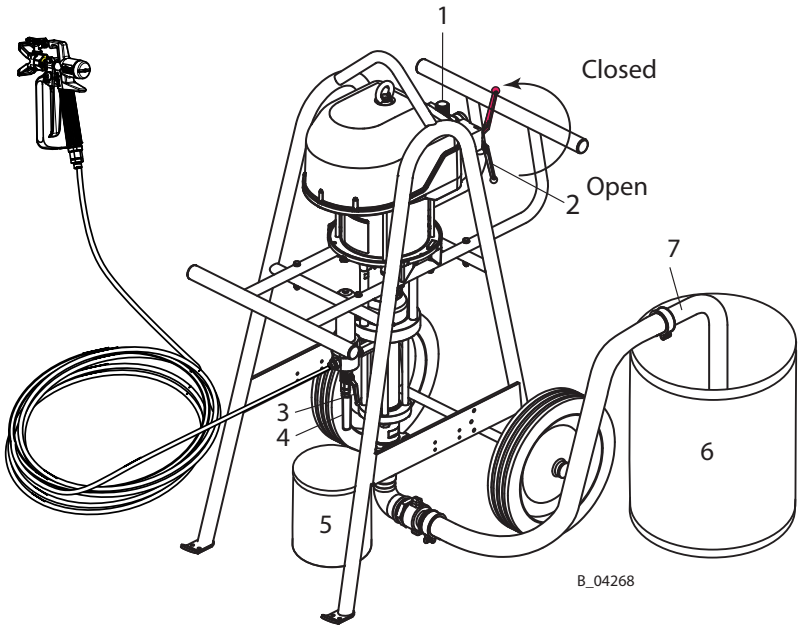
→ Ensure that the separating agent tank is filled with sufficient separating agent. Filling level 1 cm; 0.4 inch under the cup edge.

Place the supplied separating agent into the separating agent cup.
Filling level: 1 cm; 0.4 inch under the cup edge
Separating agent: Order No. 9992504



Note:
Maximum permissible inclination of pump for moving, transportation, etc. after filling it with separating agent ± 30°.
The pump must be vertical during operation.

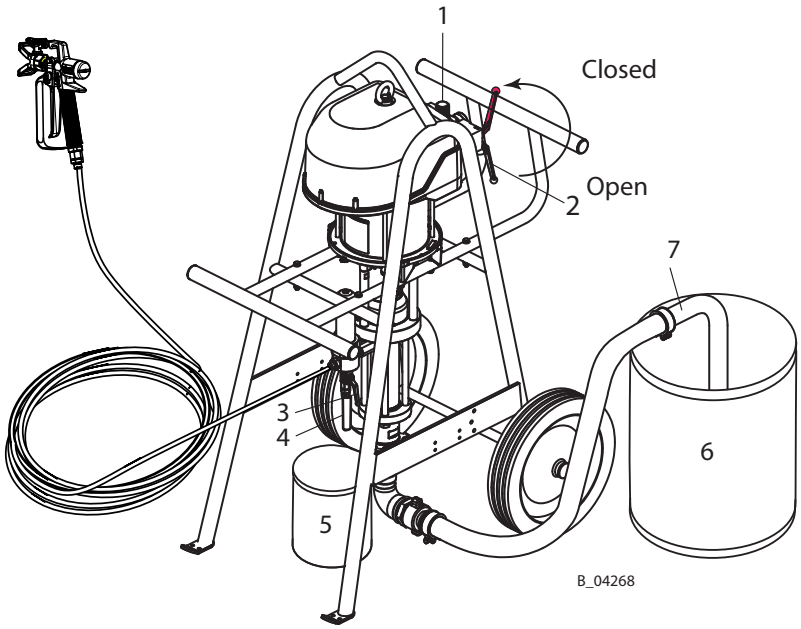
6.5.3 BASIC FLUSHING



1. Place empty tank (5) under return tube (4).
2. Place suction hose (7) in the tank with flushing agent (6).
3. Adjust the pressure regulator (1) to approx. 0.05 MPa; 0.5 bar; 7.25 psi.
4. Open return valve (3).
5. Slowly open the ball valve (2).
6. Adjust the air pressure on the pressure regulator (1) so that the pump runs smoothly.
7. Flush the system until clean flushing agent flows into the tank (5).
8. Close ball valve (2).
9. Close return valve (3).
10. Point the gun, without nozzle, into tank (5) and open it.
11. Slowly open the ball valve (2).
12. Rinse until clean flushing agent flows from the gun.
13. Close ball valve (2).
14. When there is no pressure remaining in the system, close the gun.
15. Secure the gun.
16. Dispose of the contents of the tank (5) according to the local regulations.

7 OPERATION

7.1 FILLING WITH WORKING MATERIAL



1. Place empty tank (5) under return tube (4).
2. Place suction hose (7) in the tank with working material (6).

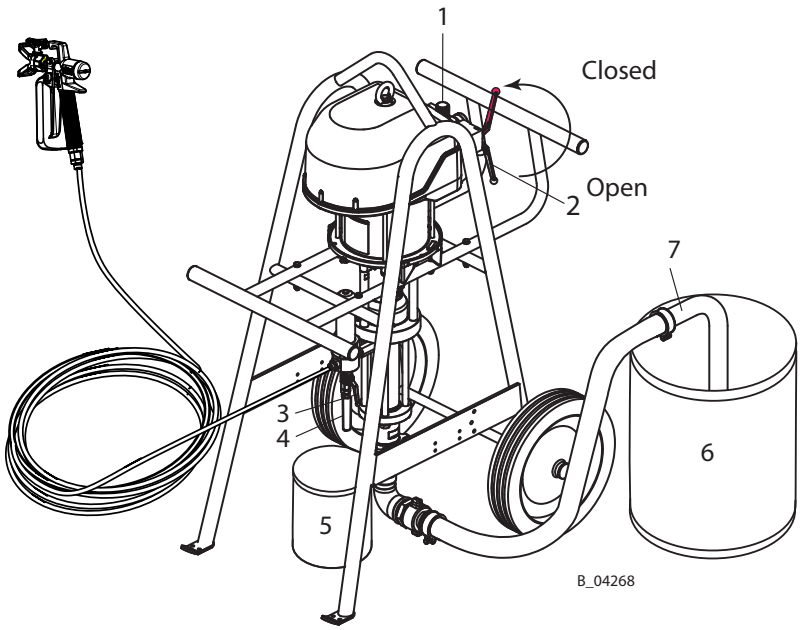
Note:

If the pump is equipped with a rigid suction system, it should only be dipped in into the working material up to the middle of the inlet housing at the maximum!

3. Adjust the pressure regulator (1) to approx. 0.05 MPa; 0.5 bar; 7.25 psi.
4. Open return valve (3).
5. Slowly open the ball valve (2).
6. Adjust the air pressure on the pressure regulator (1) so that the pump runs smoothly.
7. Close ball valve (2) as soon as pure working material starts coming from the return tube (4).
8. Close return valve (3).
9. Point the gun, without nozzle, into tank (5) and open it.
10. Slowly open the ball valve (2).
11. Close ball valve (2) as soon as pure working material starts coming from the gun.
12. When there is no pressure remaining in the system, close the gun.
13. Secure the gun.
14. Dispose of the contents of the tank (5) according to the local regulations.

7.2 WORK

7.2.1 SPRAYING



1. Secure gun and place nozzle in the gun.
2. Slowly open the ball valve (2).
3. Set required working pressure on the pressure regulator (1).
4. Optimize the spraying results as laid down in the gun instructions.
5. Start work process.

7.2.2 PRESSURE RELIEF/WORK INTERRUPTION

1. Close gun.
2. Close ball valve (2).
3. Release the system by opening the gun.
4. Close and secure gun.

5 Open and close the return valve (3) to completely depressurize the system.

If the system has been used with 2K products:

NOTICE

Hardened working material in the spraying system when 2K product is processed!
Destruction of pump and injection system.

→ Follow the manufacturer's processing rules, particularly regarding the pot life.
→ Flush thoroughly before the end of the pot life.
→ The pot life is decreased by warmth.

7.2.3 DECOMMISSIONING AND CLEANING

Note:
The device should be cleaned for maintenance purposes. Ensure that no remaining product dries and sticks.

Procedure:

1. Work interruption -> carry out the steps in Chapter 7.2.2.
2. Basic flushing -> carry out the steps in Chapter 6.5.3.
3. Maintain the gun according to the operating manual.
4. Clean and check the suction system and the suction filter.
5. When using a high-pressure filter: clean and check filter insert and filter housing.
6. Clean the outside of the system.

⚠ WARNING

Brittle filter pressure regulator!
The tank on the filter pressure regulator becomes brittle through contact with solvents and can burst.
Flying parts can cause injury.

→ Do not clean the tank on the filter pressure regulator with solvents.

7. Put the whole system back together.
8. Check the level of the separating agent -> Chapter 6.5.2.
9. Fill the system with flushing agent as laid down in Chapter 7.1 "Filling with Working Material".

⚠ WARNING

Gas mixtures can explode if there is an incompletely filled pump!
Danger to life from flying parts.

→ Ensure that the pump and suction system are always completely filled with flushing agent or working medium.
→ Do not spray the device empty after cleaning.

7.3 LONG-TERM STORAGE

When storing the device for longer periods of time, it is necessary to thoroughly clean it and protect it from corrosion. Replace the water or solvent in the product pump with a suitable preservative, fill separating agent cup with separating agent.

Procedure:

1. Carry out points 1 through 9 in Chapter 7.2.3 "Decommissioning and Cleaning".
2. Flush with preservative according Chapter 6.5.3.

8 TROUBLESHOOTING AND RECTIFICATION

Problem	Cause	Remedy
The pump does not work	Air motor does not work or stops.	Open and close ball valve on the pressure regulator unit or briefly disconnect compressed air supply.
	No pressure indication on the pressure gage (air pressure regulator defective).	Disconnect compressed air supply briefly or repair or change pressure regulator.
	Spray nozzle is clogged.	Clean the nozzle according to the instructions.
	Insufficient compressed air supply.	Check compressed air supply.
	Filter insert in spray gun or high-pressure filter is clogged.	Clean the parts and use a suitable working material.
	Fluid section or high-pressure hose are blocked (e.g. 2K product hardened).	Dismount and clean fluid section, replace high-pressure hose.
	Grease in spool and sleeve assembly.	Degrease spool and sleeve assembly.
	Pump stops at the stroke end occasionally.	Check detent element (see service manual).
Poor spray pattern	See gun instructions.	
Irregular operation of product pump: spray jet collapses (pulsation)	Viscosity is too high.	Thin spraying product.
	Spraying pressure is too low.	Increase air inlet pressure. Use a smaller nozzle.
	Valves are clogged.	Clean product pump, if necessary leave to soak in flushing agent.
	Foreign body in suction valve.	Dismount suction valve housing, clean, and check valve seat.
	Diameter of compressed air line too small.	Assemble a larger supply line -> Technical data, Chapter 5.3.3
	Valves, packings, or pistons are worn out.	Replace the parts.
	Control air filter or work air filter is clogged.	Check filter and clean it if necessary.
The pump runs smoothly but does not suck up any product	The suction system's union nut is loose; the pump is taking in air.	Tighten union nut.
	Suction filter is clogged.	Clean filter.
	Ball in suction or piston valve is sticking.	Clean with flushing agent (if necessary vent device).
Pump runs when the gun is closed.	Packings, valves, or pistons are worn out.	Replace the parts.
Air motor is iced up.	There is a lot of condensation water in the air supply.	Install a water separator.

If none of the causes of malfunction mentioned are present, the defect can be remedied by a WAGNER Service Center.

9 MAINTENANCE

⚠ WARNING

Incorrect maintenance/repair!
Danger to life and equipment damage.

→ Only a WAGNER service center or a suitably trained person may carry out repairs and replace parts.
→ Only repair and replace parts that are listed in the "Spare Parts" chapter and that are assigned to the device.
→ Before all work on the device and in the event of work interruptions:
- Disconnect the control unit from the mains.
- Relieve the pressure from the spray gun and device.
- Secure the spray gun against actuation.
→ Observe the operating manual and service instructions at all times when carrying out work.

1. Check the level of separating agent in the separating agent cup every day, and top up if necessary.
2. Check and clean the high-pressure filter every day or as required.
3. Each decommissioning procedure should be carried out as laid down in Chapter 7.2.3.
4. Check hoses, pipes, and couplings every day and replace if necessary.

→ In accordance with the guideline for liquid ejection devices (ZH 1/406 and BGR 500 Part 2 Chapter 2.36):
- The liquid ejection devices should be checked by an expert (e.g. Wagner service technician) for their safe working conditions as required and at least every 12 months.
- If devices have been decommissioned, the examination can be suspended until the next start-up.

The service instructions are available in German and English.
For order number see Chapter 1.

9.1 HIGH-PRESSURE HOSES

The service life of the fluid hoses is reduced due to environmental influences even when handled correctly.

→ Check hoses, pipes, and couplings every day and replace if necessary.
→ As a precaution, fluid hoses should be replaced after a period specified by the operator.

DANGER

Bursting hose, bursting threaded joints!
Danger to life from injection of product.

→ Ensure that the hose material is chemically resistant to the sprayed products.
→ Ensure that the spray gun, threaded joints, and product hose between the device and the spray gun are suitable for the pressure generated in the device.
→ Ensure that the following information can be seen on the high-pressure hose:
- Manufacturer
- Permissible operating pressure
- Date of manufacture

9.2 DECOMMISSIONING

When the equipment must be scrapped, please differentiate the disposal of the waste materials. The following materials have been used:

→ Steel
→ Aluminum
→ Elastomers
→ Plastics
→ Carbide

The consumable products (paints, adhesives, sealers, solvents) must be disposed of according to the valid specific standards.

10 ACCESSORIES

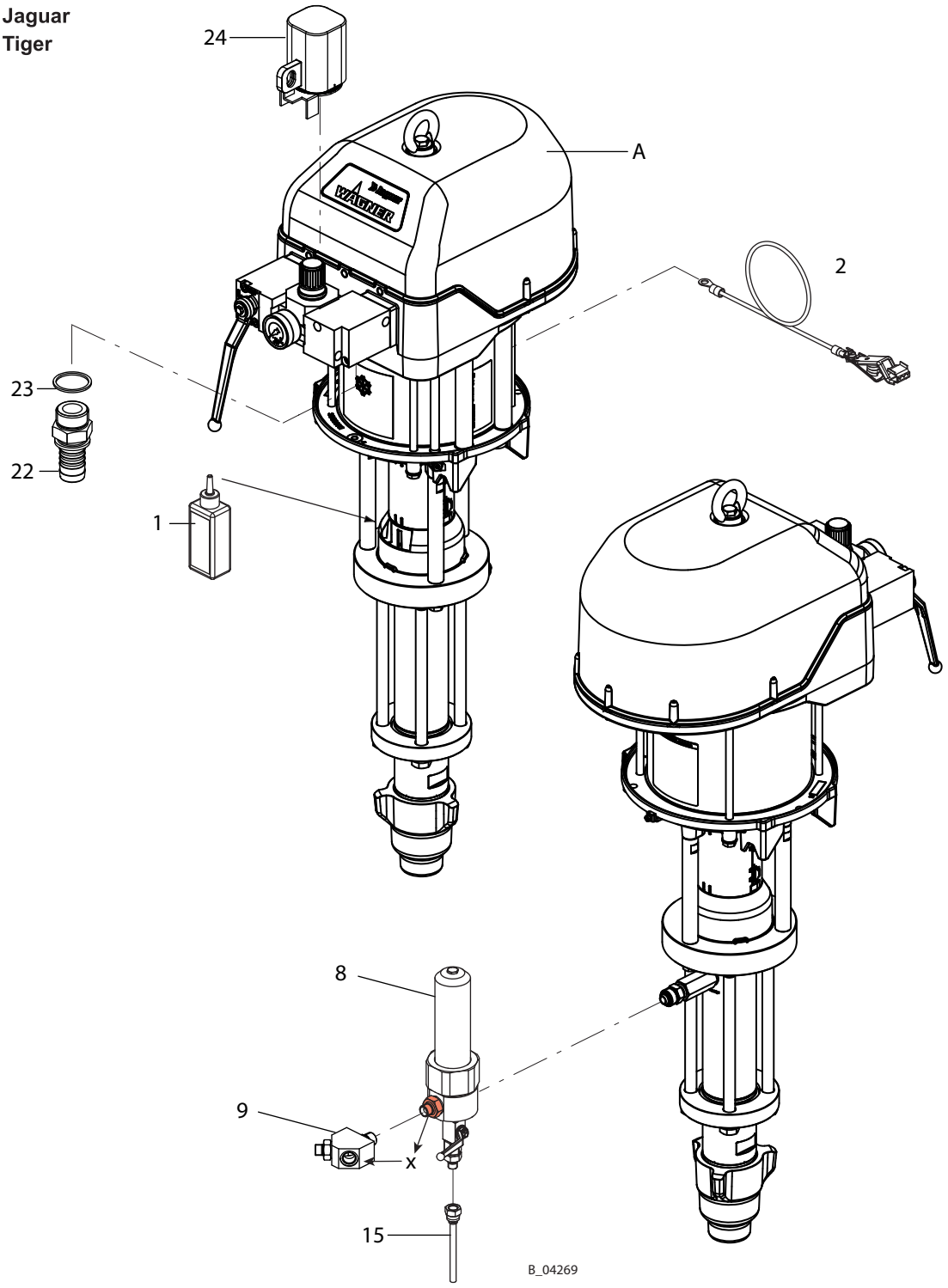
10.1 ACCESSORIES FOR JAGUAR AND TIGER PUMPS

10.1.1 PRODUCT OUTLET ACCESSORIES

Accessories list			Jaguar 75-150	Jaguar 55-200	Tiger 72-300
Pos	**K**	**Designation**	**No.**	**No.**	**No.**
A		Piston pump PE/TG	2339845	2339846	2339847
1		Separating agent 250 ml; 250 cc	9992504		
2		Grounding cable 3 m; 9.8 ft	236219		
8		HP filter DN12 PN530-SSt with carbon steel ball valve	2339900		
9		Y-distributor	2339390		
15	◆	Return tube DN6-G1/4"-100mm-PE	2331752		
22		Outside thread grommet 1"-NW25	9985671		
23		Sealing ring 1"	9974135		
24		Regulator lock	2334958		

◆ = Wearing parts

Jaguar
Tiger

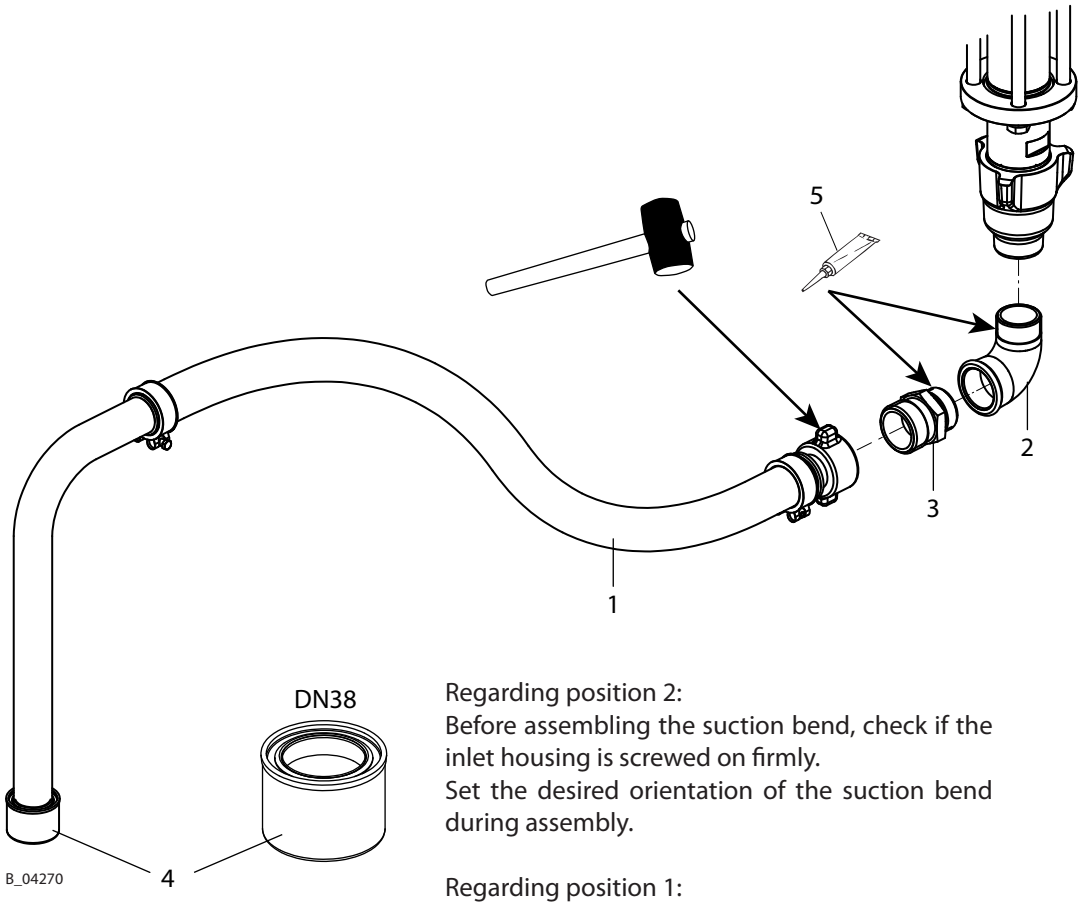


10.1.2 PRODUCT INLET ACCESSORIES

For trouble-free intake, use hoses which are as short as possible. The maximum hose length is dependent upon the viscosity of the product, the suction height, and the nominal diameter of the hose.

Accessories list			Jaguar 75-150	Jaguar 55-200	Tiger 72-300
Pos	**K**	**Designation**	**No.**	**No.**	**No.**
A		Piston pump PE/TG	2339845	2339846	2339847
1	◆	Suction hose DN38-SSt, complete	2325815		
2		Fitting-EF-FM-G1 1/2-G1 1/2-PN25-TG	2329019		
3		Fitting-DF-MM-G1 1/2-Rd55x1/6-PN25-CS	2336489		
4	◆	Suction filter DN38-12.8mesh-SSt	2329596		
5		Loctite 638	9992833		

◆ = Wearing parts



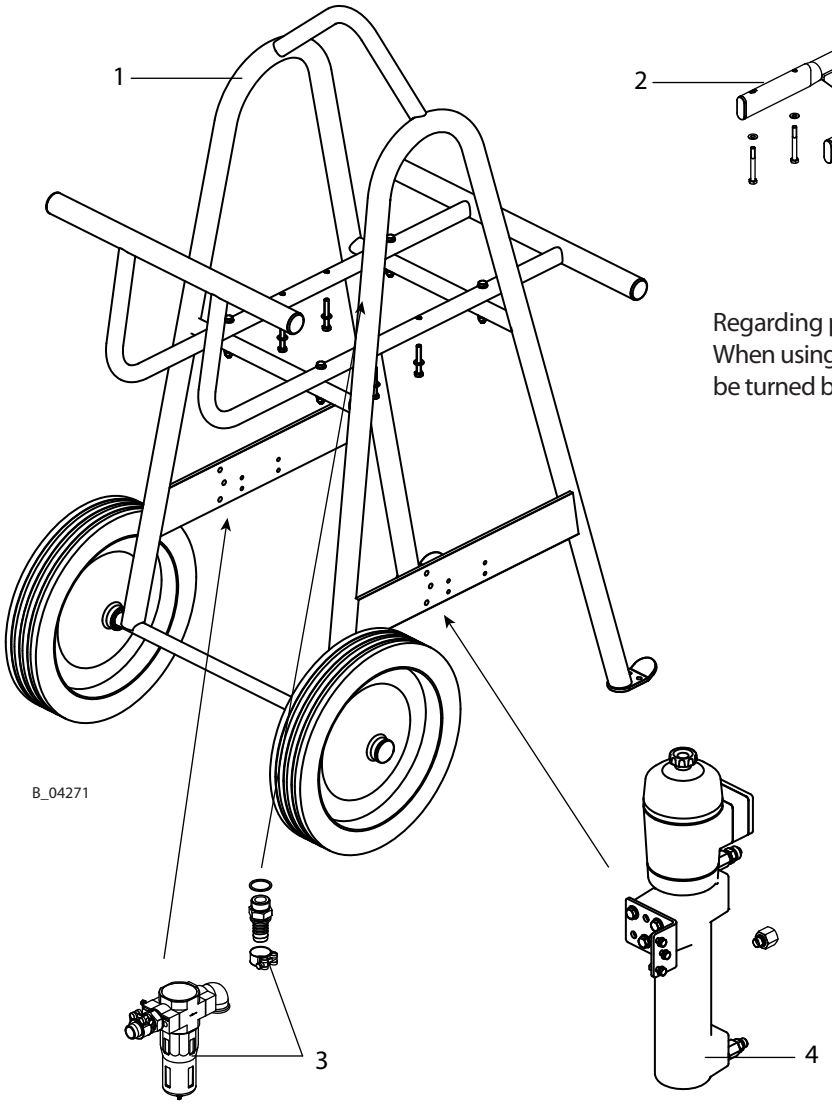
Regarding position 2:
Before assembling the suction bend, check if the inlet housing is screwed on firmly.
Set the desired orientation of the suction bend during assembly.

Regarding position 1:
For the assembly or disassembly of the nut, hit the cam with a rubber mallet.

10.1.3 ACCESSORIES FOR TROLLEY AND WALL MOUNT

Accessories list		Jaguar 75-150	Jaguar 55-200	Tiger 72-300
Pos	K Designation	No.	No.	No.
A	Piston pump PE/TG	2339845	2339846	2339847
1	Trolley Heavy Duty, complete	2339705		
2	Wall bracket 9", complete	369020		
3	Air Filter Set PC	2339851		
4	Heater set PC	2339728		

◆ = Wearing parts



Regarding position 2:
When using a wall mount, the fluid section must be turned by 180°.

10.2 SPRAYPACKS

		Spraypack Jaguar 75-150	Spraypack Jaguar 55-200	Spraypack Tiger 72-300
Pos	**Designation**	**No.**	**No.**	**No.**
1	Spraypack	2339869	2339872	2339874
2	Jaguar piston pump 75-150-PC PE/TG	2339845		
2	Jaguar piston pump 55-200-PC PE/TG		2339846	
2	Tiger piston pump 72-300-PC PE/L			2339847
3	Trolley PC	2339705		
4	Air Filter Set PC	2339851		
5	HP filter DN12-PN530-SSt, complete	2339900		
6	Return tube	2331752		
7	Airless gun G-15 for Profi Tip HP	347012		
8	Wagner Profi Tip Nozzle	1006521		
9	HP-Hose-DN10-PN530-3/8"NPS-15,0m-PA	9987118		
10	HP-Hose-DN6-PN530-1/4"NPS-1,5m-PA	9987117		
11	Fitting-DF-MM-3/8"NPS-1/4"NPS-PN530-SSt	367561		
12	Suction hose DN38-SSt, complete	2325815		
13	Fitting-EF-FM-G1 1/2-G1 1/2-PN25-TG	2329019		
14	Fitting-DF-MM-G1 1/2-Rd55x1/6-PN25-CS	2336489		

11 SPARE PARTS

11.1 HOW CAN SPARE PARTS BE ORDERED?

Always supply the following information to ensure delivery of the right spare part:

Order number, designation, and quantity
The quantity need not be the same as the number given in the quantity column "**Stk**" on the lists. This number merely indicates how many of the respective parts are used in each component.

The following information is also required to ensure smooth processing of your order:
- Billing address
- Delivery address
- Name of the person to be contacted in the event of any queries
- Type of delivery (normal mail, express delivery, air freight, courier, etc.)

Identification in spare parts lists

Explanation of column "**K**" (labeling) in the following spare parts lists:

◆ Wearing parts
Note: No liability is assumed for wearing parts.

● Not part of the standard equipment but available as a special accessory.

⚠ WARNING

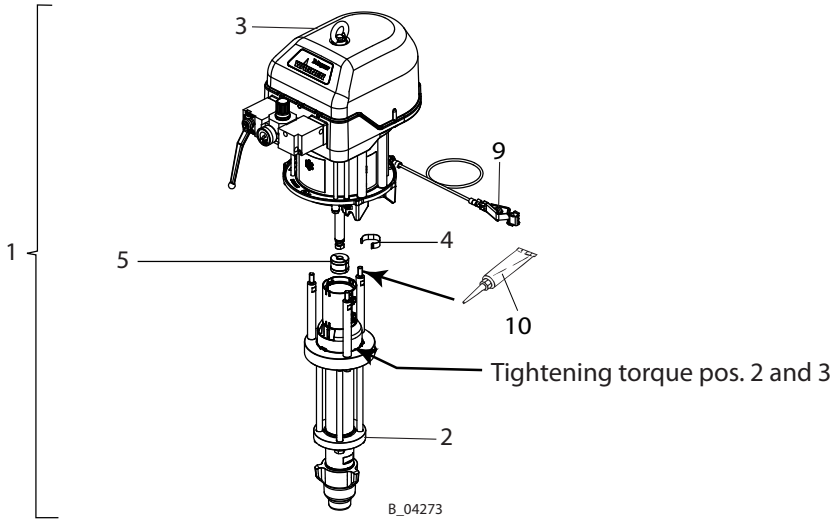
Incorrect maintenance/repair!
Risk of injury and equipment damage.

→ Have repairs and part replacements be carried out only by specially trained staff or a WAGNER service center.
→ Before all work on the device and in the event of work interruptions:
- Switch off the energy/compressed air supply.
- Relieve the pressure from the spray gun and device.
- Secure the spray gun against actuation.
→ Observe the operating manual and service instructions at all times when carrying out work.

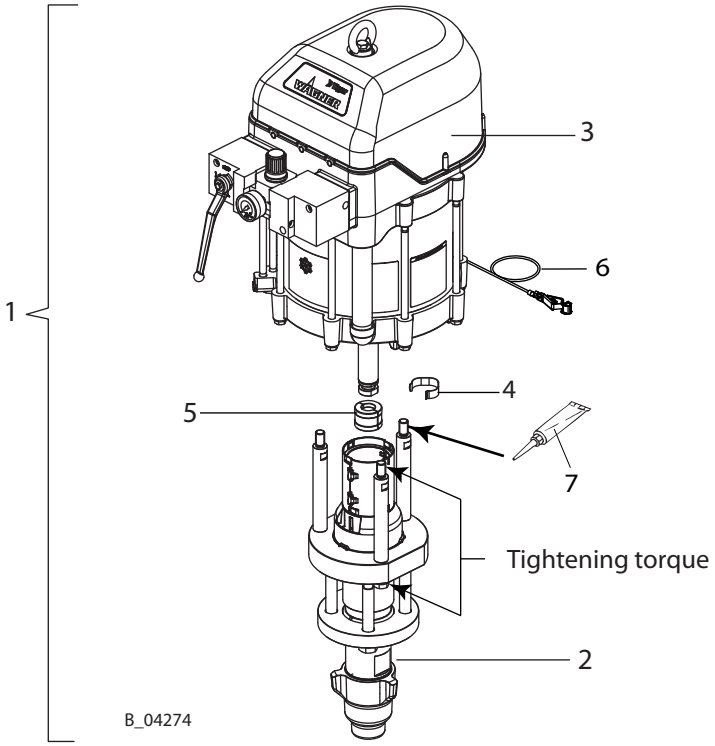
The service instructions are available separately. See Chapter 1.

11.2 OVERVIEW OF THE COMPONENTS

		Jaguar 75-150 PE/TG	Jaguar 55-200 PE/TG
Pos	**Designation**	**Order No.**	**Order No.**
1	Piston pump	2339845	2339846
2	Fluid section	2340007	2340008
3	Air motor	2329625	2342487
4	Spring	368530	370530
5	Coupling	368529	2327924
9	Grounding cable, complete	236219	236219
10	Molykote DX grease	9992616	9992616
Tightening torque for air motor/fluid section		50 Nm; 37 lbft	70 Nm; 52 lbft



		Tiger 72-300 PE/L
Pos	**Designation**	**Order No.**
1	Piston pump	2339847
2	Fluid section	2340009
3	Air motor	2329627
4	Spring	370530
5	Coupling	370529
6	Grounding cable, complete	236219
7	Molykote DX grease	9992616
Tightening torque for air motor/fluid section		70 Nm; 52 lbft



11.3 AIR MOTORS

11.3.1 JAGUAR AIR MOTOR

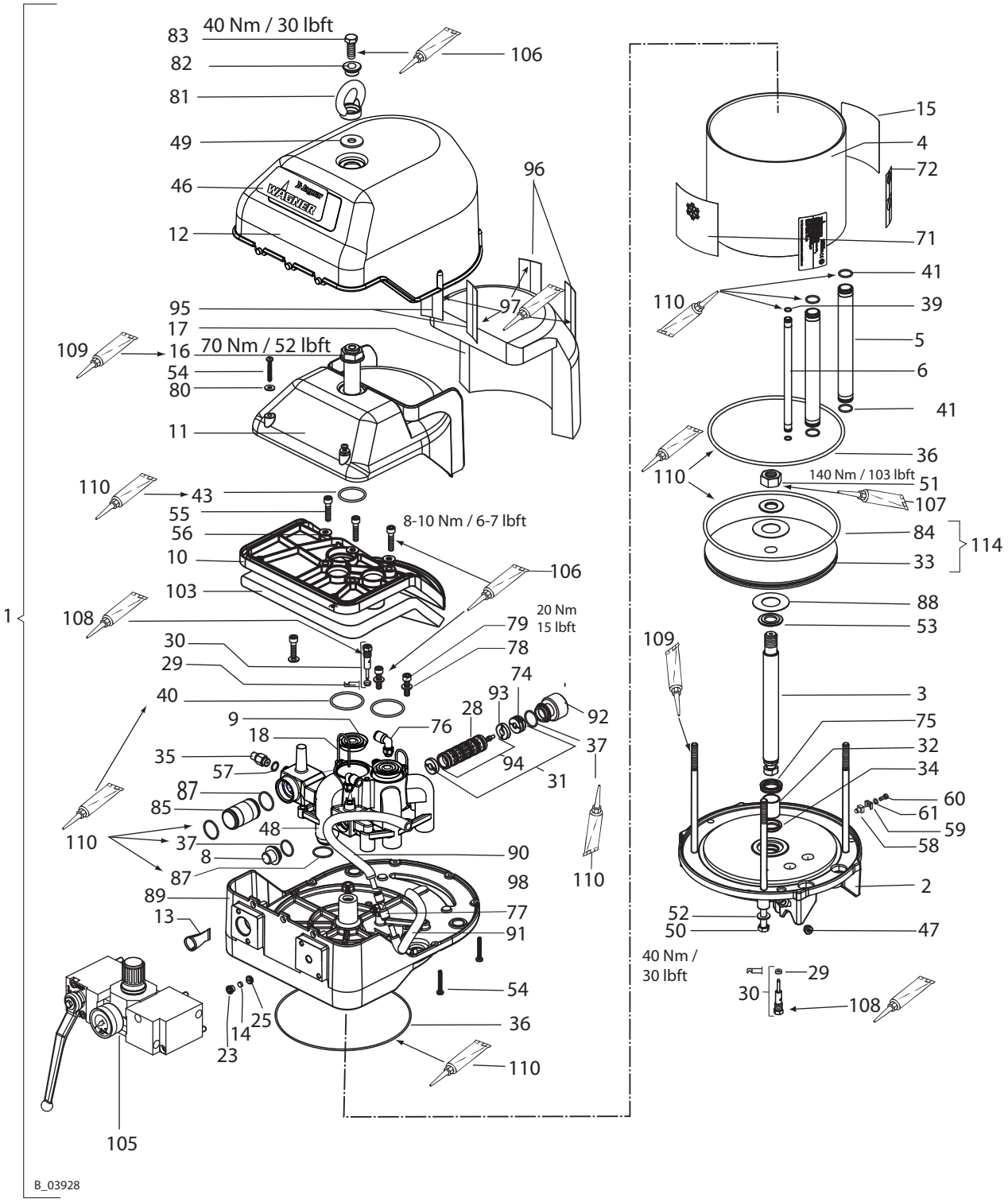
⚠ WARNING

Incorrect maintenance/repair!
Risk of injury and equipment damage.

→ Have repairs and part replacements be carried out only by specially trained staff or a WAGNER service center.
→ Before all work on the device and in the event of work interruptions:
- Switch off the energy/compressed air supply.
- Relieve the pressure from the spray gun and device.
- Secure the spray gun against actuation.
→ Observe the operating manual and service instructions at all times when carrying out work.

Jaguar air motor spare parts list				Jaguar 75-150	Jaguar 55-200
Pos	**K**	**Stk**	**Designation**	**Order No.**	**Order No.**
1		1	Air motor	2329625	2342487
2		1	Flange	369316	
3	◆	1	Piston rod	368402	
4		1	Cylinder pipe	369403	
5		2	Compressed air pipe	368404	
6		1	Control air pipe	367405	
8		1	Sealing plug	369307	
9	◆ ★	2	Outlet seal	369312	
10		1	Connecting part	369309	
11		1	Silencer	369310	
12		1	Hood	369905	
13	◆ ★	1	Compressed air filter	369313	
14	◆	1	Control air filter	367314	
15		1	Fluid warning label	2332082	
16		1	Shoulder screw	369318	
17	◆	1	Sound deadening pad	369906	
18		2	Cotter pin	369320	
23		1	Filter holder	367324	
25		1	Throttle	367325	
28	◆	6	O-ring	9974143	
29	◆	2	Rod seal	9974217	
30	◆	2	Pilot valve	369290	
31	◆	1	Spool-sleeve combination assembly, ISO 3	369907	
32	◆	1	Permaglide bushing	9962019	

◆ = Wearing parts
★ = Included in service set
● = Not part of the standard equipment but available as a special accessory.



Do not dismount the piston (pos. 94).

Pressure regulator (pos. 105),
for details see Chapter 11.3.5

Jaguar air motor spare parts list				Jaguar 75-150	Jaguar 55-200
Pos	**K**	**Stk**	**Designation**	**Order No.**	**Order No.**
33		1	Piston 9	369385	
34	◆ ★	1	Seal wiper ring	9974125	
35		1	Safety valve	368286	368288
36	◆ ★	2	O-ring	9974133	
37	◆ ★	2	O-ring	9971056	
39	◆ ★	2	O-ring	9974089	
40	◆ ★	2	O-ring	9974132	
41	◆ ★	4	O-ring	9971137	
43	◆ ★	1	O-ring	9974165	
46		1	WAGNER label	2330372	
47		2	Threaded plug	9998675	
48		1	Control housing	369315	
49		1	Washer	9925034	
50		4	Hexagon screw	9907137	
51		1	Hexagon nut	9910605	
52		4	Washer	9920106	
53		2	Washer	369303	
54		7	SFS screw	9907125	
55		3	Socket cap screw	9900314	
56		3	Washer	9925029	
57	◆ ★	1	Sealing ring	9970149	
58		1	Base	9952668	
59		1	Clamping bracket	9952667	
60		1	Socket cap screw	9900701	
61		1	Spring ring	9921505	
71		1	IceBreaker label	2330382	
72		1	Warning label	2332077	
74	◆	1	Detent body	369027	
75		1	Rod seal profile E5	9974124	
76		2	Threaded elbow fitting	9992757	
77		1	Screw connector T	9992758	
78		4	Washer	9920102	
79		4	Socket cap screw	9900313	
80		2	Washer	9925031	
81		1	Lifting eye nut	369325	
82		1	Shoulder ring	369324	
83		1	Hexagon screw	9900150	
84	◆ ★	1	O-ring	9974262	
85		1	Air pipe	369306	
87	◆	3	O-ring	9971004	
88		2	Damping washer	369304	

◆ = Wearing parts

★ = Included in service set

● = Not part of the standard equipment but available as a special accessory.

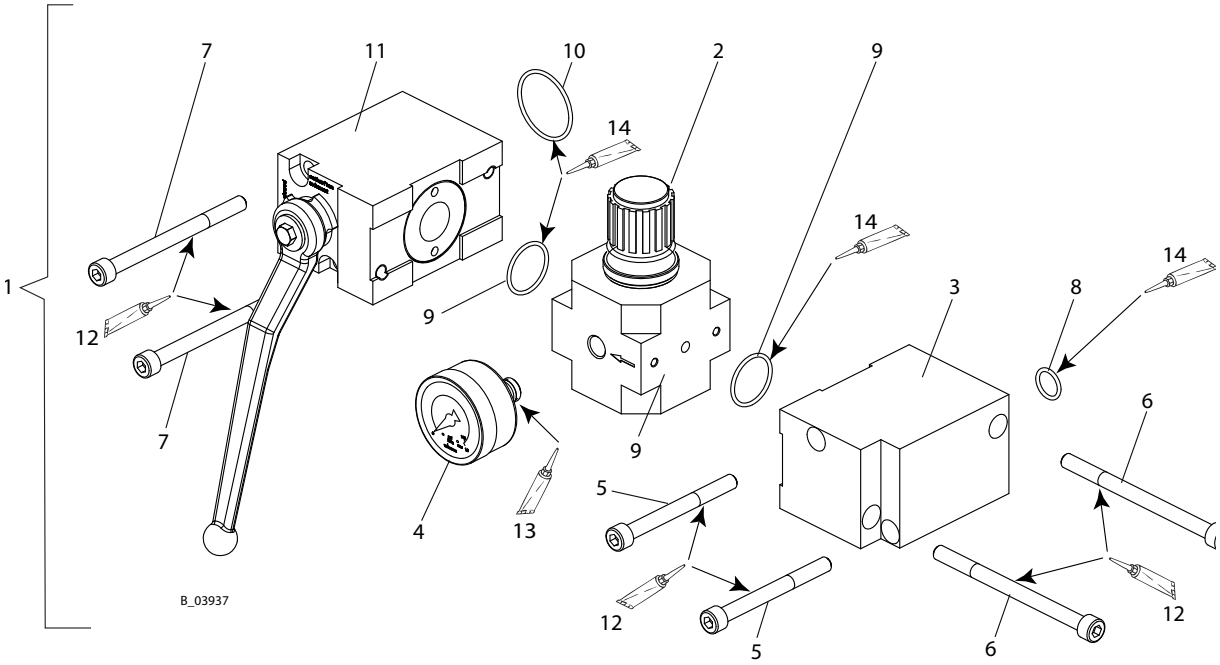
Jaguar air motor spare parts list				Jaguar 75-150	Jaguar 55-200
Pos	**K**	**Stk**	**Designation**	**Order No.**	**Order No.**
89		1	Control flange	369317	
90		1	Air hose back	369026	
91		1	Air hose front	369025	
92		1	Lock space 9	369326	
93	◆	2	Damper ISO3	369329	
94	◆	1	Spool & sleeve assembly ISO3	9943131	
95	◆	1	Velcro fastener adhesive part	9999151	
96	◆	1	Velcro fastener coating part	9999152	
97		1	Adhesive	9992816	
98	◆	1	Viton B O-ring	9971372	
103	◆	1	Sound absorbing mat 9/12"	369330	
105		1	Pressure regulator unit 9, complete	2328609	
106		1	Loctite 222 50ml; 50cc	9992590	
107		1	Loctite 243 50ml; 50cc	9992511	
108		1	Loctite 542 50ml; 50cc	9992831	
109		1	Molykote DX grease	9992616	
110		1	Beacon grease	9998808	
111		1	Wearing parts set A25R-1 (for pos. 20)	115436	
114	●	1	Piston 9 with SOFT O-ring	369971	
		1	Service set	369987	

◆ = Wearing parts

★ = Included in service set

● = Not part of the standard equipment but available as a special accessory.

11.3.2 JAGUAR AIR MOTOR REGULATOR



Jaguar air motor regulator spare parts list

Pos	K	Stk	Designation	Order No.
1		1	Pressure regulator unit 9", complete	2328609
2	◆	1	Pressure regulator valve 9"	2309974
3		1	Distribution piece 9"	2309963
4	◆	1	Pressure gauge 0-10 bar (d50)	9998725
5		2	Hexagon socket head cap screw	9900360
6		2	Hexagon socket head cap screw	9907087
7		2	Hexagon socket head cap screw	9900356
8	◆	1	O-ring	9974166
9		2	O-ring	3105540
10	◆	1	O-ring	9971405
11	◆	1	Edge ball valve 9"	2310637
12		1	Molykote DX grease	9992616
13		1	Loctite, 542 50 ml; 50 cc	9992831
14		1	Beacon grease	9998808

◆ = Wearing parts

★ = Included in service set

11.3.3 TIGER AIR MOTOR

⚠ WARNING

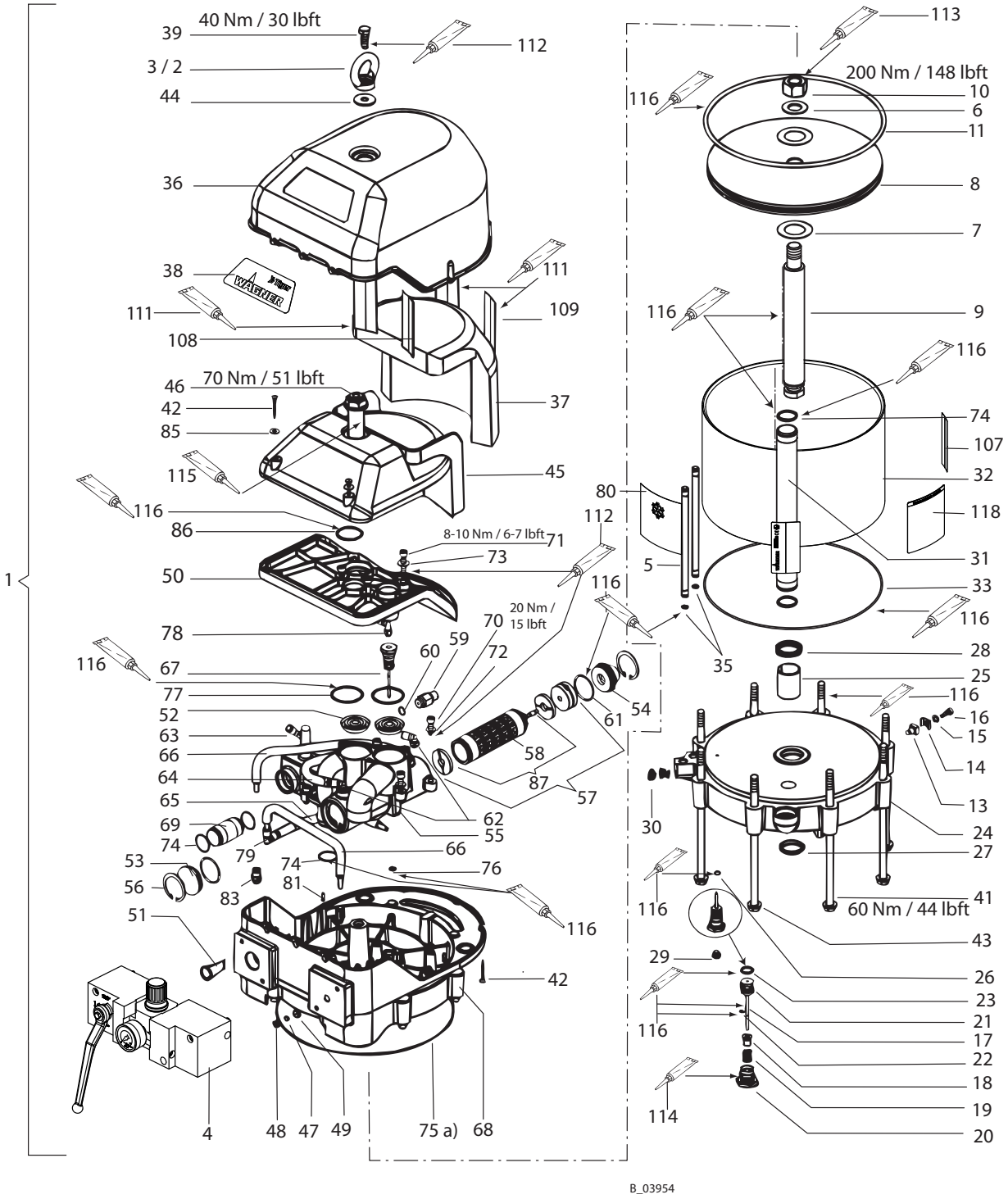
Incorrect maintenance/repair!
Risk of injury and equipment damage.

→ Have repairs and part replacements be carried out only by specially trained staff or a WAGNER service center.
→ Before all work on the device and in the event of work interruptions:
- Switch off the energy/compressed air supply.
- Relieve the pressure from the spray gun and device.
- Secure the spray gun against actuation.
→ Observe the operating manual and service instructions at all times when carrying out work.

Tiger air motor spare parts list

Pos	K	Stk	Designation	Order No.
1		1	Air motor, complete	**2329627**
2		1	Shoulder ring	369324
3		1	Lifting eye nut	369325
4	◆	1	Pressure regulator unit 12 (incl. Pos. 40)	2328610
5		2	Control air pipe 150	367405
6		1	Pistonwasher 12	370303
7		2	Damping washer 12	370304
8		1	Piston 12	370385
9	◆	1	Piston rod 12/150	370402
10		1	Hexagon nut	9913051
11	◆ ★	1	O-ring	9974261
13		1	Base	9952668
14		1	Clamping bracket	9952667
15		1	Spring washer	9921505
16		1	Socket cap screw with slit	9900701
17		1	Gauging pin	370307
18		2	Valve cover	370309
19		2	Spiral spring	370310
20		2	Screw plug	370311
21	◆	2	Valve body	370312
22		2	Lock washer	9922724
23	◆	2	O-ring	9974102
24		1	Flange 12	370316
25	◆	1	Permaglide bushing	9962026

◆ = Wearing parts
★ = Included in service set


1
39
40 Nm / 30 lbft
112
3 / 2
44
36
38
111
108
109
46
70 Nm / 51 lbft
42
85
37
115
45
116
86
8-10 Nm / 6-7 lbft
71
73
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116
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75 a)
68
42
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76
81
83
116
60
59
72
70
20 Nm / 15 lbft
58
87
57
62
55
54
61
112
116
80
5
35
113
200 Nm / 148 lbft
10
6
11
8
7
116
9
116
74
107
32
118
31
33
116
28
25
116
16
15
14
13
24
27
30
116
60 Nm / 44 lbft
41
43
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26
23
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114
B_03954

Tiger air motor spare parts list

Pos	K	Stk	Designation	Order No.
26	◆	1	O-ring	9971446
27	◆ ★	1	Scraper ring d35	9974158
28	◆ ★	1	Rod seal d35	9974159
29		1	Threaded plug	9998675
30		2	Threaded plug	9998274
31		1	Air tube 12	370306
32		1	Cylinder tube 12/150	370403
33	◆ ★	1	O-ring	9971129
35	◆ ★	4	O-ring	9974089
36		1	Hood 9	369311
37	◆	1	Sound absorbing mat 9	369319
38		1	WAGNER 12 Tiger label	2330374
39		1	Hexagon screw	9900150
41		8	Hexagon screw	9907208
42		5	Screw	9907125
43		8	Washer	9920107
44		1	Washer	9925034
45		1	Silencer 9	369310
46		1	Shoulder screw 9	369318
47	◆ ★	1	Control air filter	367314
48		1	Filter holder	367324
49		1	Throttle	367325
50		1	Connecting part 9	369309
51	◆ ★	1	Filter compressed air 9	369313
52	◆ ★	2	Discharger Gasket DE 50	369312
53		1	Stop plate 12	370313
54		1	Sealing plug 12	370314
55		1	Control housing 12	370315
56		2	Securing ring	370330
57	◆	1	Spool and sleeve assembly	9943121
58	◆	6	O-ring	9974160
59		1	Safety valve 0.78 MPa; 7.8 bar; 113 psi	2302480
60	◆ ★	1	Sealing ring	9970149
61	◆ ★	2	O-ring	9974092
62		2	Threaded elbow fitting 8-1/4"	9998253
63		2	Threaded elbow fitting 8-1/8"	9992757
64		1	Air hose front	370233
65		1	Air hose back	370234
66		2	Air hose down	370235
67		1	Gauging pin	370308
68		1	Control-flange 12	370317
69		1	Compressed air tube 12	370404
70		4	Socket cap screw	9900313

◆ = Wearing parts

★ = Included in service set

Tiger air motor spare parts list

Pos	K	Stk	Designation	Order No.
71		3	Socket cap screw	9900314
72		4	Washer	9920102
73		3	Washer	9925029
74	◆	5	O-ring	9971004
75	◆ ★	1	O-ring	9971129
76	◆	1	O-ring	9971372
77	◆ ★	2	O-ring	9974132
78		1	Threaded elbow fitting 8-1/8"	9992757
79		1	Threaded connector L	9998613
80		1	IceBreaker label	2330382
81		2	Pin for control flange	370318
82		1	Straight threaded fitting	9992744
83		1	Straight threaded fitting	9992743
84		2	Screw SFS Plastite 45	9907125
85		2	Washer	9925031
86	◆	1	O-ring	9974165
90		1	Elbow ball valve housing 12	370323
107		1	Warning label	2332077
108	◆	1	Velcro fastener adhesive part	9999151
109	◆	1	Velcro fastener coating part	9999152
111		1	"Miranit" adhesive	9992816
112		1	Loctite 222 50 ml; 50 cc	9992590
113		1	Loctite 243 50 ml; 50 cc	9992511
114		1	Loctite 542 50 ml; 50 cc	9992831
115		1	Molykote DX grease	9992616
116		1	Beacon grease	9998808
118		1	Fluid warning label	2332082
		1	Service set, air motor 12	370987

◆ = Wearing parts

★ = Included in service set

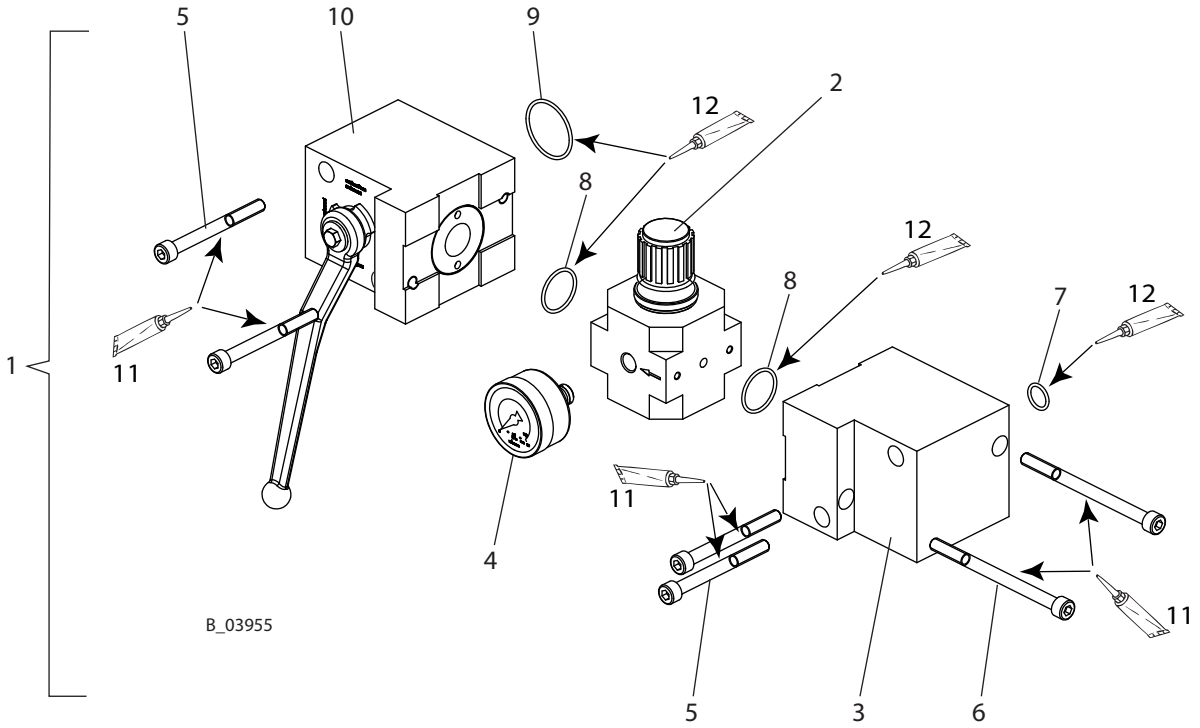
11.3.4 TIGER AIR MOTOR REGULATOR

Tiger air motor regulator spare parts list

Pos	K	Stk	Designation	Order No.
1		1	Pressure regulator unit 12", complete	2328610
2	◆	1	Pressure regulator valve 12"	2309974
3		1	Distibutor block LR-D Maxi 12	2310588
4	◆	1	Pressure gauge 0-10 bar (d50)	9998725
5		4	Hexagon socket head cap screw	9900360
6		2	Hexagon socket head cap screw	9907087
7	◆	1	O-ring	9974166
8		2	O-ring	3105540
9	◆	1	O-ring	9971405
10	◆	1	Elbow ball valve LR-D Maxi 12	2310638
11		1	Molykote DX grease	9992616
12		1	Beacon grease	9998808

◆ = Wearing parts

★ = Included in service set



11.4 FLUID SECTIONS

11.4.1 FLUID SECTION 150 CM³

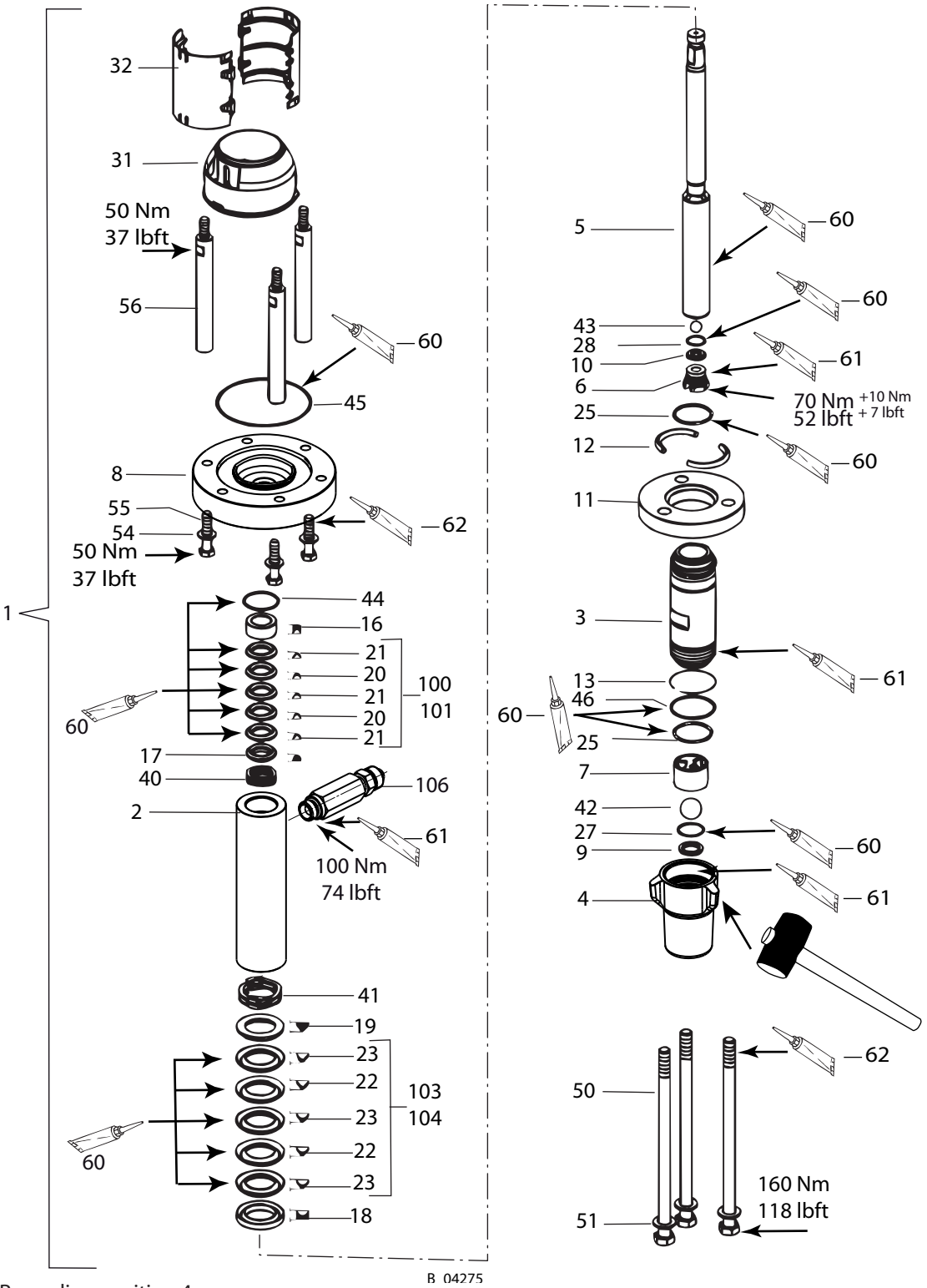
⚠ WARNING

Incorrect maintenance/repair!
Risk of injury and equipment damage.

→ Have repairs and part replacements be carried out only by specially trained staff or a WAGNER service center.
→ Before all work on the device and in the event of work interruptions:
- Switch off the energy/compressed air supply.
- Relieve the pressure from the spray gun and device.
- Secure the spray gun against actuation.
→ Observe the operating manual and service instructions at all times when carrying out work.

Spare parts list for fluid section				150 cm³ PE/TG	150 cm³ PE/L
Pos	**K**	**Stk**	**Designation**	**No.**	**No.**
1		1	Fluid section	2340007	
2		1	Pipe	368552	
3		1	Cylinder	368553	
4		1	Inlet housing 150	2327888	
5	◆	1	Piston	368555	
6		1	Valve screw	368506	
7	◆ ★	1	Ball guide, inlet	2338788	
8		1	Connecting flange	368551	
9	◆	1	Valve seat, inlet	368509	
10	◆	1	Valve seat, outlet	368510	
11		1	Snap ring flange	368561	
12		2	Snap ring half	368512	
13		1	Securing ring	368513	
16		1	Support ring	368516	
17		1	Pressure ring	367519	
18		1	Support ring	368518	
19		1	Pressure ring	368519	
100	◆	1	Packing PE/TG, complete (small)	367991	
101	◆ ●	1	Packing PE/L complete (small)		367993

◆ = Wearing parts
★ = included in service set
● =Special accessories



Regarding position 4:
Tighten by hand on block.
If necessary, hit the cam with a rubber mallet and use a spanner to hold position 3.

Spare parts list for fluid section				150 cm³ PE/TG	150 cm³ PE/L
Pos	**K**	**Stk**	**Designation**	**No.**	**No.**
20	◆ ★	2	Sealing collar TG (small)	367522	
20	◆ ★	2	Sealing collar L (small)		367922
21	◆ ★	3	Sealing collar PE (small)	367523	
103	◆	1	Packing PE/TG, complete (large)	368991	
104	◆ ●	1	Packing PE/L complete (large)		368993
22	◆ ★	2	Sealing collar TG (large)	368522	
22	◆ ★	2	Sealing collar L (large)		368922
23	◆ ★	3	Sealing collar PE (large)	368523	
25	◆ ★	2	O-ring	368525	
27	◆ ★	1	O-ring	368527	
28	◆ ★	1	O-ring	368528	
31		1	Separating agent cup	368531	
32		2	Coupling cover	368532	
40	◆ ★	1	Wave spring (small)	9998670	
41	◆ ★	1	Wave spring (large)	9998671	
42	◆ ★	1	Ball (large)	9943082	
43	◆ ★	1	Ball (small)	9941512	
44	◆ ★	1	O-ring	9974092	
45	◆ ★	1	O-ring	9974116	
46	◆ ★	1	O-ring	9974107	
50		3	Hexagon screw	9907142	
51		3	Washer	9925011	
54		3	Washer	9920107	
55		3	Hexagon screw	9900157	
56		3	Threaded bolt	368533	
60		1	Mobilux EP 2 grease	9998808	
61		1	Anti-seize paste tube	9992609	
62		1	Molykote DX grease	9992616	
106		1	Fitting SF-MM-G3/8"-M24-PN530-SSt	2329922	
		1	Service set PE/TG	368990	
	●	1	Service set PE/L		2342071

◆ = Wearing parts

★ = included in service set

● =Special accessories

11.4.2 FLUID SECTION 200 CM³

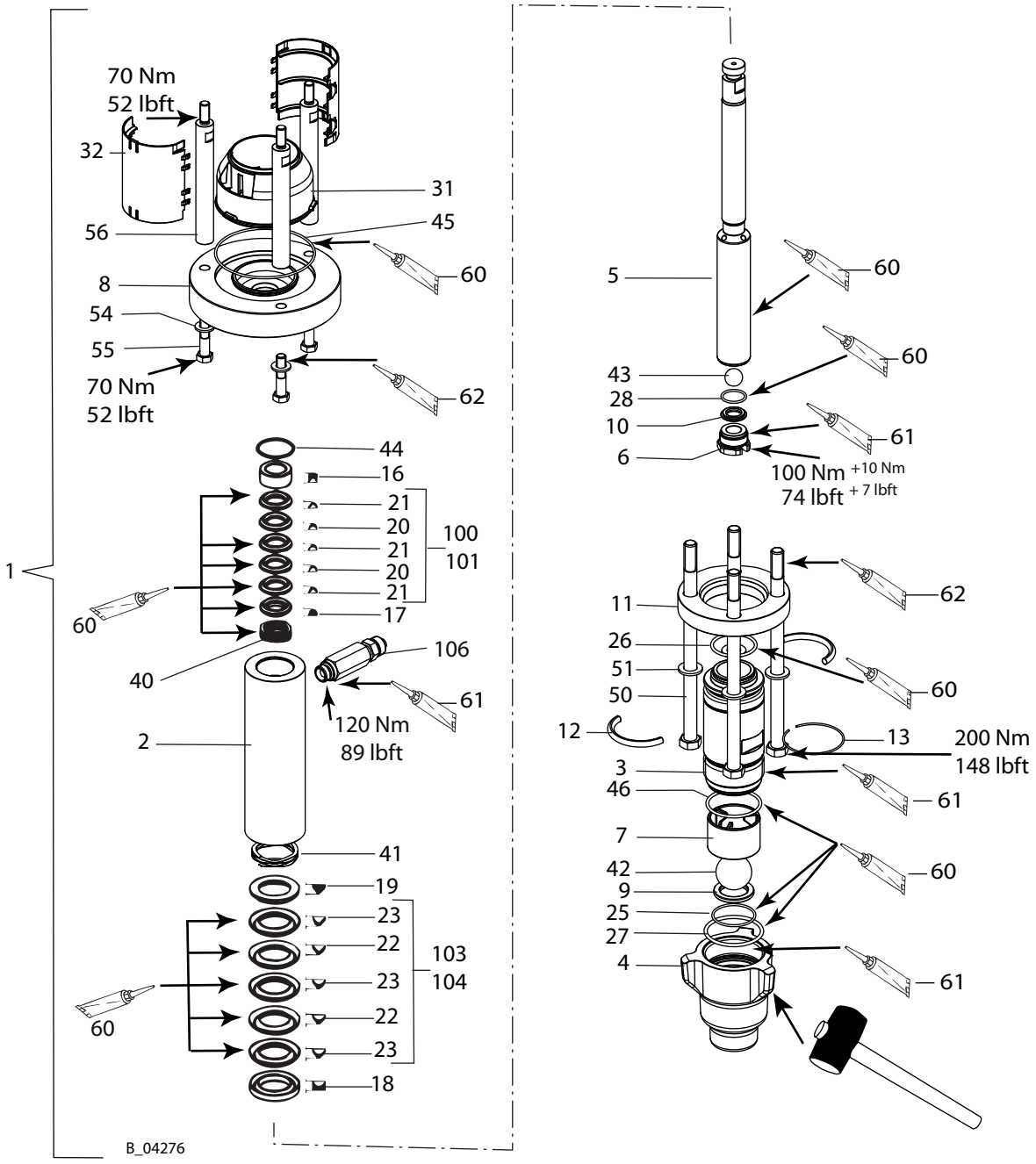
⚠ WARNING

Incorrect maintenance/repair!
Risk of injury and equipment damage.

→ Have repairs and part replacements be carried out only by specially trained staff or a WAGNER service center.
→ Before all work on the device and in the event of work interruptions:
- Switch off the energy/compressed air supply.
- Relieve the pressure from the spray gun and device.
- Secure the spray gun against actuation.
→ Observe the operating manual and service instructions at all times when carrying out work.

Spare parts list for fluid section				200 cm³ PE/TG	200 cm³ PE/L
Pos	**K**	**Stk**	**Designation**	**No.**	**No.**
1		1	Fluid section	2340008	
2		1	Pipe	2336658	
3		1	Cylinder	2336669	
4		1	Inlet housing	2338107	
5	◆	1	Piston	2336666	
6		1	Valve screw	2336692	
7		1	Ball guide, inlet	2336668	
8		1	Connecting flange	2336661	
9	◆	1	Valve seat, inlet	369509	
10	◆	1	Valve seat, outlet	2336695	
11		1	Snap ring flange	2336689	
12		2	Snap ring half	2336785	
13		1	Securing ring	2336690	
16		1	Support ring	2336670	
17		1	Pressure ring	2336680	
18		1	Support ring	2336686	
19		1	Pressure ring	2336694	
100	◆	1	Packing PE/TG, complete (small)	2341473	
101	◆	1	Packing PE/L complete (small)		2342073
20	◆ ★	2	Sealing collar TG (small)	2336679	
20	◆ ★	2	Sealing collar L (small)		2341945
21	◆ ★	3	Sealing collar PE (small)	2336674	
103	◆	1	Packing PE/TG, complete (large)	2341474	

◆ = Wearing parts
★ = included in service set
● =Special accessories



Regarding position 4:
Tighten by hand on block.
If necessary, hit the cam with a rubber mallet and use a spanner to hold position 3.

Spare parts list for fluid section				200 cm³ PE/TG	200 cm³ PE/L
Pos	**K**	**Stk**	**Designation**	**No.**	**No.**
104	◆	1	Packing PE/L complete (large)		2342074
22	◆ ★	2	Sealing collar TG (large)	2336688	
22	◆ ★	2	Sealing collar L (large)		2341943
23	◆ ★	3	Sealing collar PE (large)	2336687	
25	◆ ★	1	O-ring	369527	
26	◆ ★	1	O-ring	2336684	
27	◆ ★	1	O-ring	9974194	
28	◆ ★	1	O-ring	2338256	
31		1	Separating agent cup	368531	
32		2	Coupling cover	368532	
40	◆ ★	1	Wave spring (small)	2338091	
41	◆ ★	1	Wave spring (large)	2338092	
42	◆ ★	1	Ball (large)	9943086	
43	◆ ★	1	Ball (small)	9941513	
44	◆ ★	1	O-ring	9974132	
45	◆ ★	1	O-ring	9974116	
46	◆ ★	1	O-ring	2336683	
50		3	Hexagon screw	9907142	
51		3	Washer	9925011	
54		3	Washer	9920107	
55		3	Hexagon screw	9900157	
56		3	Threaded bolt	368533	
60		1	Mobilux EP 2 grease	9998808	
61		1	Anti-seize paste tube	9992609	
62		1	Molykote DX grease	9992616	
106		1	Fitting SF-MM-G1/2"-M24-PN530-SSt	2337413	
		1	Service set PE/TG	2341476	
		1	Service set PE/L		2342072

◆ = Wearing parts

★ = included in service set

● =Special accessories

11.4.3 FLUID SECTION 300 CM³

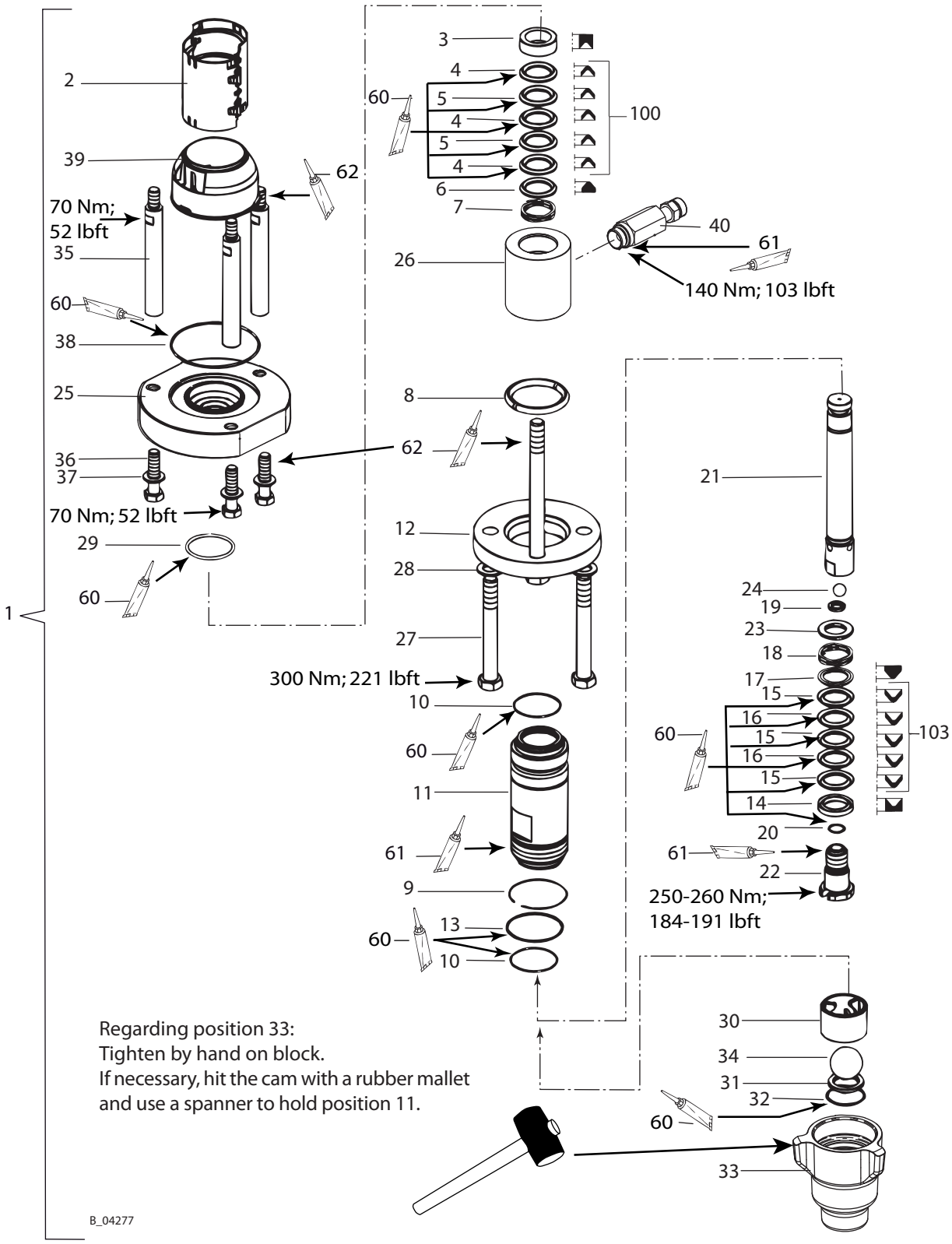
⚠ WARNING

Incorrect maintenance/repair!
Risk of injury and equipment damage.

→ Have repairs and part replacements be carried out only by specially trained staff or a WAGNER service center.
→ Before all work on the device and in the event of work interruptions:
- Switch off the energy/compressed air supply.
- Relieve the pressure from the spray gun and device.
- Secure the spray gun against actuation.
→ Observe the operating manual and service instructions at all times when carrying out work.

Spare parts list for fluid section				300 cm³ PE/L
Pos	**K**	**Stk**	**Designation**	**Order No.**
1		1	Fluid section 300 cm³	2329666
2		2	Coupling cover stroke 150	368532
3		1	Support ring 35.8/52-300	369516
4	◆ ★	3	Sealing collar PE 35.8/ 52	368523
5	◆ ★	2	Sealing collar L 35.8/ 52	368922
6		1	Pressure ring 35.8/52	368519
7	◆ ★	1	Spirawave, crest-to-crest 35.8/52	9998671
8		2	Snap ring half 300	369512
9		1	Retaining ring 300	369513
10	◆ ★	2	O-ring	369525
11	◆	1	Cylinder 300	370503
12		1	Snap ring flange 300	370511
13	◆ ★	1	O-ring	9974118
14		1	Support ring 34/50-300	369518
15	◆ ★	3	Sealing collar PE 34/50	369523
16	◆ ★	2	Sealing collar L 34/50	369922
17		1	Pressure ring 34/50	369519
18	◆ ★	1	Spirawave, crest-to-crest 35.8/52	9998671
19	◆	1	Valve seat outlet 300	369510
20	◆ ★	1	O-ring	369528
21	◆	1	Piston 300	370505
22		1	Valve screw 300	370506
23		1	Shoulder ring 300	370514
24	◆ ★	1	Ball	9941505
25		1	Connecting flange	370501

u = Wearing part
H = Included in service set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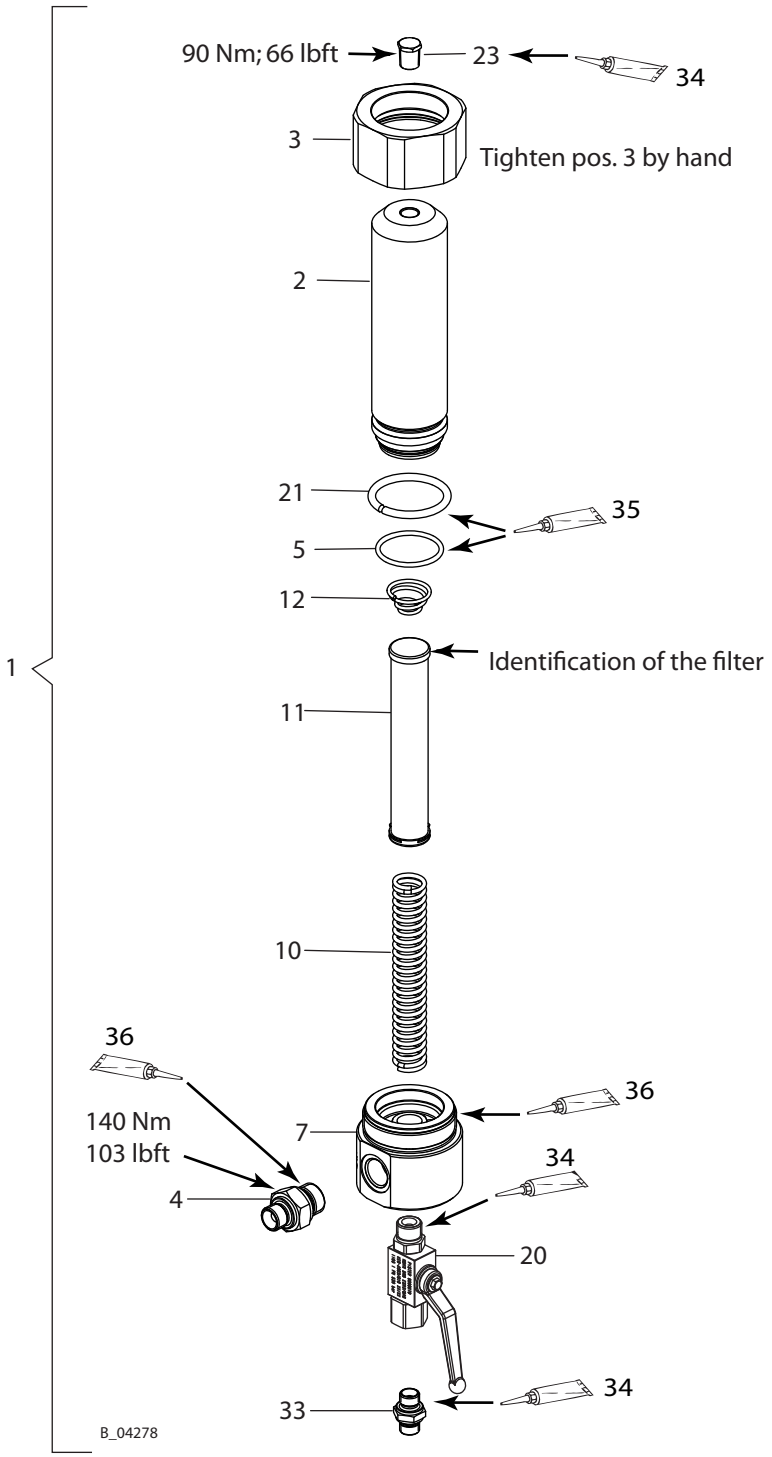
37
38
39
40
60
61
62
100
103
70 Nm; 52 lbft
70 Nm; 52 lbft
140 Nm; 103 lbft
300 Nm; 221 lbft
250-260 Nm; 184-191 lbft
Regarding position 33:
Tighten by hand on block.
If necessary, hit the cam with a rubber mallet and use a spanner to hold position 11.
B_04277

Spare parts list for fluid section				300 cm³ PE/L
Pos	**K**	**Stk**	**Designation**	**Order No.**
26		1	Tube 300	370502
27		4	Hexagon screw	9907210
28		4	Washer	9920110
29	◆ ★	1	O-ring	9974117
30	◆ ★	1	Ball guide	2336668
31	◆	1	Valve seat inlet 300	369509
32	◆ ★	1	O-ring	369527
33		1	Inlet housing 300	2338595
34	◆ ★	1	Ball	9943086
35		3	Threaded bolt M16x169	370533
36		3	Hexagon screw	9907209
37		3	Washer	9925011
38	◆ ★	1	O-ring	9974116
39		1	Separating oil cup stroke 150	368531
40		1	Rotary connection G3/4"	2329923
60		1	Mobilux EP 2 grease	9998808
61		1	Anti-sieze paste tube	9992609
62		1	Molykote DX grease	9992616
Packing, upper:				
100	◆	1	Packing PE/L, complete	368993
Packing, lower:				
103	◆	1	Packing PE/L, complete	369993
Service sets:				
			Service set 300 PE/L	370989

u = Wearing part
H = Included in service set

11.5 HIGH-PRESSURE FILTER (UP TO 530 BAR; 7,687 PSI)



			Ball valve version in:	Carbon steel
Pos	**K**	**Stk**	**Designation**	**Order No.**
1		1	HP filter DN12-PN530, complete	2339900
2		1	Filter housing	2324542
3		1	Union nut	2324543
4		1	Fitting	2330781
5	◆	1	O-ring	9955863
7		1	Distribution housing for ball valve	2324670
10		1	Filter support	9894245
11	◆	1	Filter cartridge *	
	◆ ●		* Filter cartridge 200	295721
	◆		* Filter cartridge 100	3514068
	◆ ●		* Filter cartridge 50	3514069
	◆ ●		* Filter cartridge 20	291564
12	◆	1	Cone spring	3514058
20	◆	1	Ball valve	9998679
21		1	Pressure ring d45	2325562
23		1	Hexagon plug	2323718
33		1	Double connector	2325826
34		1	Loctite 542 50 ml; 50 cc	9992831
35		1	Mobilux EP 2 grease	9998808
36		1	Anti-seize paste tube	9992609

◆ = Wearing parts

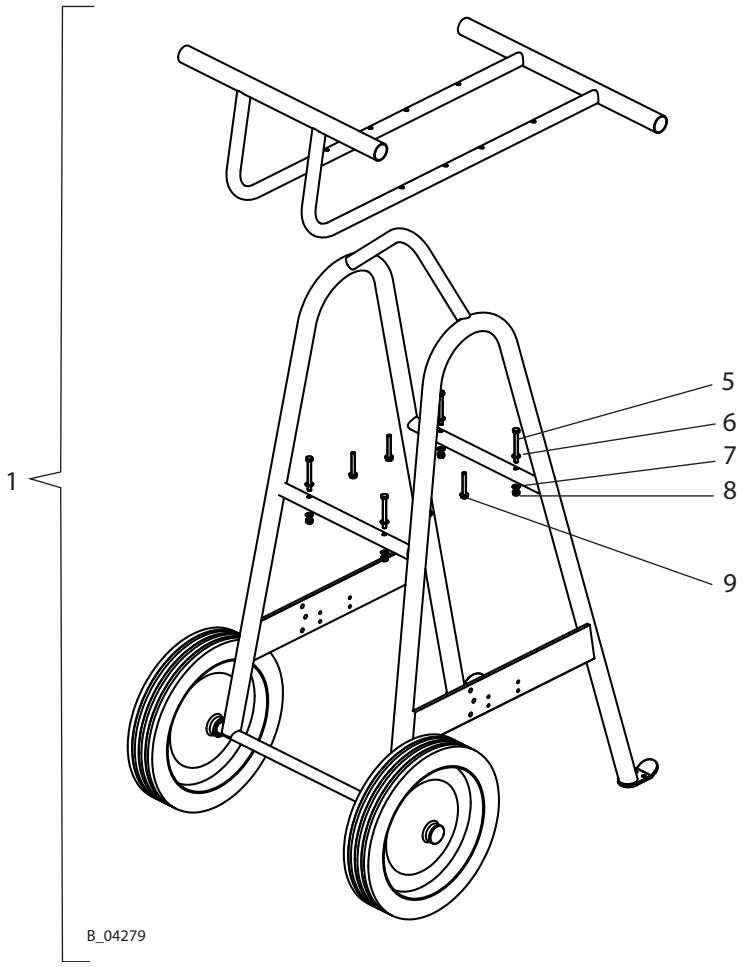
● = Not part of the standard equipment but available as a special accessory.

⚠ WARNING

Incorrect maintenance/repair!
Danger to life and equipment damage.

→ Only a WAGNER service center or a suitably trained person may carry out repairs and replace parts.
→ Only repair and replace parts that are listed in the "Spare Parts Catalogue" chapter and that are assigned to the device.
→ Before all work on the device and in the event of work interruptions:
- Disconnect the control unit from the mains.
- Relieve the pressure from the spray gun and device.
- Secure the spray gun against actuation.
→ Observe the operating manual and service instructions at all times when carrying out work.

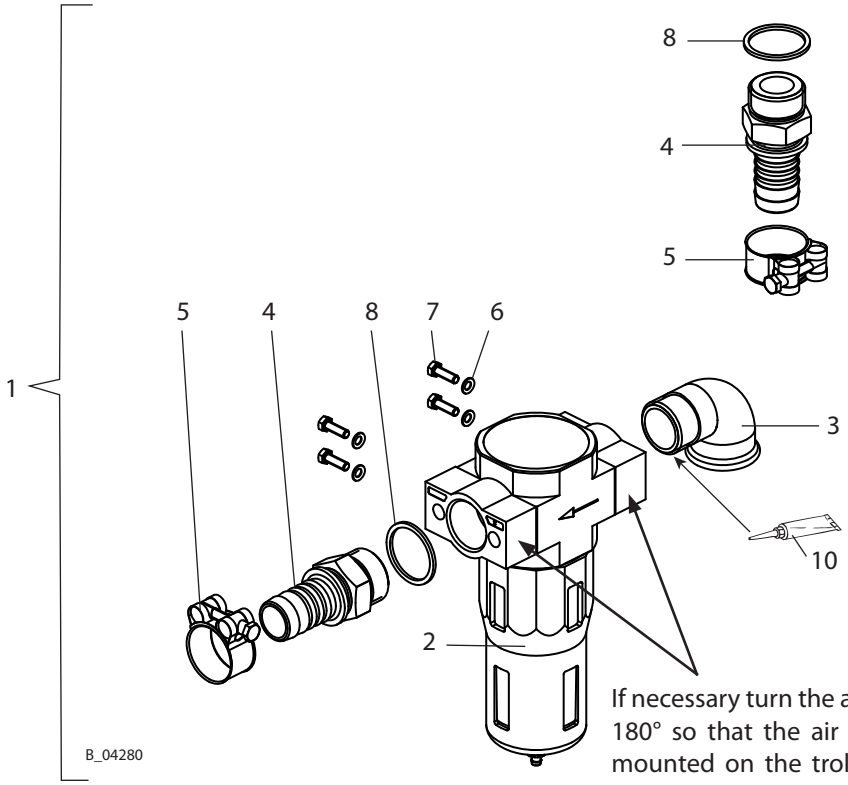
11.6 TROLLEY PC



Pos K	Stk	Designation	Order No.
1	1	Trolley PC	2339389
5	4	Hexagon screw	9900246
6	4	Washer, A8.4	9920102
7	4	Contact washer, M8	3155404
8	4	Self-locking hexagon nut, M8	9910208
9	4	Hexagon screw	9900130

◆ = Wearing parts

11.6.1 AIR FILTER SET PC

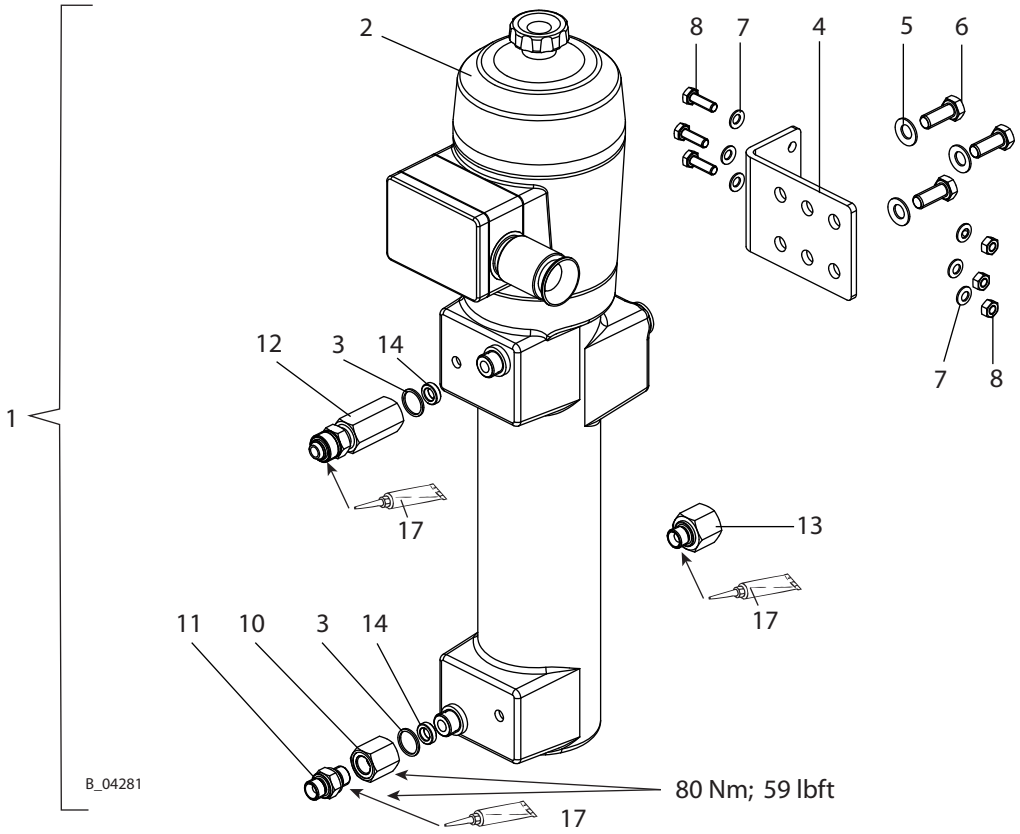


If necessary turn the adaptor plate 180° so that the air filter can be mounted on the trolley. Observe the air filter's flow direction.

Pos	K	Stk	Designation	Order No.
1		1	Air Filter Set PC	2339851
2	◆	1	Filter LF-1-D-Maxi	2330030
3		1	Elbow 90° GF-92	9985613
4		2	Hose nozzle G1"- NW25	9985671
5		2	Heavy duty clamp	2336526
6		4	Contact washer	9955841
7		4	Hexagon screw without shaft	9900140
8		2	Sealing ring 1"	9974135
9		1 m	LP hose DN25-PN10-EPDM	2323474
10		1	Loctite 638	9999042

◆ = Wearing parts

11.6.2 HEATER SET PC



Pos	K	Stk	Designation	Order No.
1		1	Heater set PC	2339728
2	◆	1	Heater	65021
3	◆	2	Sealing ring	9970110
4		1	Elbow	393369
5		3	Contact washer	3306773
6		3	Hexagon screw without shaft	9900150
7		6	Contact washer, M08	3155404
8		3	Hexagon nut, M8	9910107
9		3	Hexagon screw without shaft	9900109
10		1	Fitting-RF-FF-M20x1.5-G3/8-PN530-SSt	2333393
11		1	Fitting-DF-MM-G3/8-G3/8-PN530-SSt	2330775
12		1	Fitting SF-FM-M20-M24-PN530-SSt	2339609
13		1	Fitting-RF-FM-M24-G3/8-PN530-SSt	2339606
14	◆	2	Filler part	2339756
15	◆	1	HPP hose DN10-PN550 PA W-G 0.735 m	2334063
16		1	Mobilux EP 2 grease	9998808
17		1	Molykote DX grease	9992616
18		1	Continuous-flow heater operating manual	65860

◆ = Wearing parts

12 WARRANTY AND CONFORMITY DECLARATIONS

12.1 IMPORTANT NOTES REGARDING PRODUCT LIABILITY

As a result of an EC regulation effective from January 1, 1990, the manufacturer shall only be liable for his product if all parts originate from him or are approved by him, and if the devices are properly mounted, operated and maintained.
The manufacturer will not be held liable or will only be held partially liable if third-party accessories or spare parts have been used.
With genuine WAGNER accessories and spare parts, you have the guarantee that all safety regulations are complied with.

12.2 WARRANTY CLAIM

Full warranty is provided for this device:
We will at our discretion repair or replace free of charge all parts which within 36 months in single-shift, 18 months in double-shift or 9 months in triple-shift operation from date of receipt by the purchaser are found to be wholly or substantially unusable due to causes prior to the sale, in particular faulty design, defective materials or poor workmanship.
The type of warranty provided is such that the device or individual components of the device are either replaced or repaired as we see fit. The resulting costs, in particular shipping charges, road tolls, labour and material costs will be borne by us except where these costs are increased due to the subsequent shipment of the device to a location other than the address of the purchaser.
We do not provide warranty for damage that has been caused or contributed to for the following reasons:
Unsuitable or improper use, faulty assembly or commissioning by the purchaser or a third party, normal wear, negligent handling, defective maintenance, unsuitable coating products, substitute products and the influence of chemical, electrochemical or electrical agents, except when the damage is attributable to us.
Abrasive coating products such as red lead, emulsions, glazes, liquid abrasives, zinc dust paints and so forth reduce the service life of valves, packaging, spray guns, nozzles, cylinders, pistons etc. Wear and tear due to such causes are not covered by this warranty.
Components that have not been manufactured by WAGNER are subject to the original warranty of the manufacturer.
Replacement of a component does not extend the period of warranty of the device.
The device should be inspected immediately upon receipt. To avoid losing the warranty, we or the supplier company are to be informed in writing about obvious faults within 14 days upon receipt of the device.
We reserve the right to have the warranty compliance met by a contracting company.
The services provided by this warranty are dependent on evidence being provided in the form of an invoice or delivery note. If the examination discovers that no warranty claim exists, the costs of repairs are charged to the purchaser.
It is clearly stipulated that this warranty claim does not represent any constraint on statutory regulations or regulations agreed to contractually in our general terms and conditions.

J. Wagner AG

12.3 CE DECLARATION OF CONFORMITY

Herewith we declare that the supplied version of pneumatic pumps and their

Jaguar	Tiger
75-150	72-300
55-200	

spraypacks:
complies with the following guidelines:

2006/42/EC	94/9/EC

Applied standards, in particular:

DIN EN ISO 12100: 2011	DIN EN ISO 13732-1: 2008	DIN EN 13463-1: 2009
DIN EN 809: 2012	DIN EN 14462: 2010	DIN EN 13463-5: 2011
DIN EN ISO 4413: 2011	DIN EN 12621: 2011	DIN EN ISO 80079-34: 2012
DIN EN ISO 4414: 2011	DIN EN 1127-1: 2011	

Applied national technical standards and specifications, in particular:

BGR 500 Part 2 Chapter 2.29 and Chapter 2.36	TRBS 2153

Identification:

CE Ex II 2G IIB c T3 X

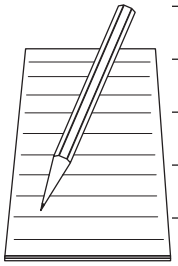
CE Certificate of Conformity
The CE certificate of conformity is enclosed with this product. If needed, further copies can be ordered through your WAGNER dealer by specifying the product name and serial number.

Order number: 2302304

12.4 NOTES TO GERMAN REGULATIONS AND GUIDELINES

a) BGR 500 Part 2, Chapter 2.36 Working with Liquid Ejection Devices
b) BGR 500 Part 2, Chapter 2.29 Working with Coating Products
c) BGR 104 Explosion protection rules
d) TRBS 2153 Avoiding ignition risks
e) BGR 180 Equipment for cleaning work pieces with solvents
f) ZH 1/406 Guidelines for liquid ejection devices
g) BGI 740 Painting rooms and equipment
h) Betr.Sich.V. Plant Safety Ordinance

Note: All titles can be ordered from Heymanns Publishing House in Cologne, or they can be found on the Internet.



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